

# PROSPECTUS 2025-26

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## TATA INSTITUTE OF SOCIAL SCIENCES

A Deemed to be University and Grant-in-Aid Institute under  
Ministry of Education, GoI

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### SCHOOL OF SKILL EDUCATION

“कौशल भारत से खुशहाल भारत”

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## Message from the Vice-Chancellor



**Prof. Badri Narayan Tiwari**  
*Vice-Chancellor*  
*Tata Institute of Social Sciences*

With great pride and purpose, I welcome you to the Tata Institute of Social Sciences (TISS) – a symbol of knowledge, innovation, and transformative education. As you review this prospectus, you're not just exploring courses and facilities; you're entering a world where ambition thrives, curiosity is valued, and aspirations are shaped into reality.

TISS is dedicated to excellence. We are a community of thinkers, learners, researchers, and practitioners united by our commitment to advance and co-create knowledge and social innovations to make a better world. Our legacy is not just academic excellence; it is research that creates impact. Generations of scholars, educators, and students have contributed to a vibrant culture

where intellectual rigour coexists with empathy and social responsibility. Our faculty are not only distinguished experts in their respective fields but also passionate mentors, guiding students to realise their full potential.

We believe that higher education should nurture visionary thinkers, compassionate citizens, and reflective practitioners to address social challenges. We should foster an inquisitive spirit, upholding integrity and respect for all. Our educational philosophy is rooted in relevance and adaptability, blending tradition with transformation. Our curricula are designed to inspire and engage students, seamlessly integrating interdisciplinary research and reflective practice. We equip students to acquire knowledge, forge new paradigms, lead, and contribute to society.

Education in TISS goes beyond classrooms. We firmly believe in experiential learning, as outlined in the National Education Policy, and encourage our students to engage in research, internships, entrepreneurship, and service projects from the start of their education. Our international partnerships and exchange programmes help our students and their knowledge partners embody the spirit of 'Vasudhaiva Kutumbakam', fostering cross-cultural understanding and nurturing the world as one family. Here, lasting friendships are formed, and barriers are broken down.

Our vibrant campuses are filled with student clubs, sports, cultural festivals, and volunteer activities. We support students' emotional intelligence, leadership, and sense of purpose. Our counselling, wellness, leadership, and career guidance services provide comprehensive support throughout their academic journey. Explore new interests, challenge your beliefs, and discover your true potential here.

We're delighted to have a rich blend of cultures, ideas, and viewpoints. Our alumni network, spanning continents, industries, and disciplines, comprises changemakers, innovators, and leaders who embody the spirit of TISS globally. We welcome you to this TISS family – a network that offers unwavering support and inspiration throughout your life and career.

As you begin your academic journey at TISS, I invite you to contemplate your own aspirations and assess how they align with our shared vision. Here, you will encounter a supportive environment, access to world-class resources, and a community that celebrates your individuality. You will be challenged, inspired, and empowered to make a meaningful impact. Let your time with us be one of exploration and growth. Embrace opportunities, learn from setbacks, and pursue excellence with passion and perseverance. Shape your journey and make a boundless impact.

We warmly welcome you to TISS. Our university supports your ambitions, ignites your curiosity, and helps you become a leader for tomorrow. Together, let's strive for personal success and the betterment of humanity.

We look forward to your remarkable contributions to our community and the world.

Best wishes for your journey ahead,

**Prof. Badri Narayan Tiwari**  
**Vice-Chancellor**

## Message from the Dean



**Prof. Madhushree Sekher**

*Dean, School of Skill Education  
Tata Institute of Social Sciences*

**T**ata Institute of Social Sciences (TISS) is always connected with the community. This community engagement is vital for the growth, development and upliftment of our youth and through them, the nation.

The School of Skill Education is happy to extend the social and community service engagement of TISS by carrying forward its Vision and Mission into the sphere of skill education. Through our industry relevant degree programmes we strive to make our students job ready - shaping their futures with education and training that equip/empower them with applied knowledge, sustainable income and self-reliance.

In our skill education, we work closely with our Knowledge Partners for Skill Training/Industry Partners who walk alongside us in ensuring that our programmes fulfil the required skill internships / apprenticeship-based training.

While recognizing India's strength and knowledge systems (Virasat), our programmes are rooted in inclusive and innovative teaching pedagogies (Asmita), where industries – our Knowledge Partners for Skill Training – are encouraged to provide stipend to students, where possible, during their internships with them and contribute to the collective well-being (Vikas) of our students.

**Prof. Madhushree Sekher**

Dean, School of Skill Education  
Tata Institute of Social Sciences

## Vision and Mission of TISS

**Vision** of the TISS has been to be an institution of excellence in higher education that continually responds to changing social realities through the development and application of knowledge, towards creating a people-centred, ecologically sustainable and just society that promotes and protects dignity, equality, social justice and human rights for all.

**Mission:** In pursuance of its vision and guiding principles, the Tata Institute of Social Sciences organises teaching programmes to facilitate the development of competent and committed professionals for practice, research and teaching; undertakes research; develops and disseminates knowledge; and reaches out to the larger community through extension, at the local, national, regional and international levels.

- Creation and provision of socially relevant and high quality professional education in a wide range of inter-disciplinary areas of Social Sciences to a larger number of students from all sections of the society in the country.
- Facilitation of autonomous research and dissemination of knowledge.
- Support knowledge creation through strong M.Phil. and Ph.D. programmes and post-doctoral scholars.
- Strategic extension, field action and advocacy through training and capacity building of State and non-State institutions and personnel.
- Initiate field action and advocacy to demonstrate and facilitate creation of policies and programmes.
- Professional response to natural and human-made disasters, through participation in relief and rehabilitation activities.

## About the School of Skill Education

The School of Vocational Education (SVE), renamed as the School of Skill Education (SSE) on November 3, 2023 was set up to spearhead the Institute's commitment to provide skill education and training to millions of youth in India through appropriately designed industry relevant/market-oriented skill educational programmes.

Realizing the need to involve higher education institutions in the provision of vocational/skill education, the Ministry of Human Resource Development (MHRD) approached the Tata Institute of Social Sciences (TISS) in 2011, with a request to incubate a National Vocational University (NVU). Given its experience and expertise, the Institute made an alternative suggestion that a School of Vocational Education be started at TISS, Mumbai as a precursor to the NVU. The suggestion was accepted and a Memorandum of Understanding (MoU) was signed between the Tata Institute of Social Sciences (TISS) and the All India Council for Technical Education (AICTE) on 27th March 2012, at Delhi, to start a School that will follow the work-integrated model of education. A seed grant was given to TISS and the School of Vocational Education was born!

## Vision

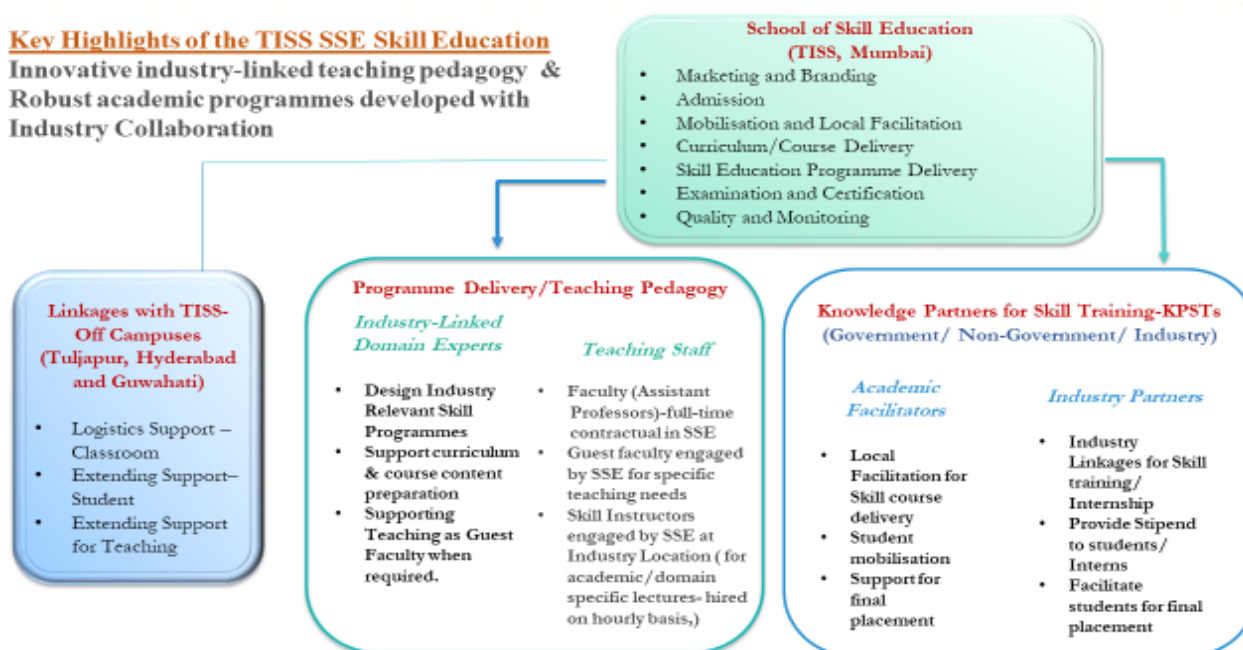
The core vision of the School is to empower youth with industry-relevant skills through quality skill-based programmes that enhance employability, create sustainable livelihoods, and contribute to the nation's economic growth.

## Mission

- To build a dynamic ecosystem that addresses existing and emerging skill gaps, unemployment, under-employment, and job mismatches by producing competent, industry-ready graduates through holistic education and high-quality skill training across the Undergraduate, Diploma, Postgraduate Diploma, and Short-term Skill Enhancement Programmes (StSEPs) offered in various skill sectors.
- To provide students with hands-on exposure to real-world work environments through the Work Integrated Training Programme (WITP), which combines classroom learning with on-the-job training in leading industries and companies.
- To provide stipend opportunities during on-the-job training wherever applicable, subject to the fulfilment of programme requirements and industry terms.

### Key Highlights of the TISS SSE Skill Education

Innovative industry-linked teaching pedagogy & Robust academic programmes developed with Industry Collaboration



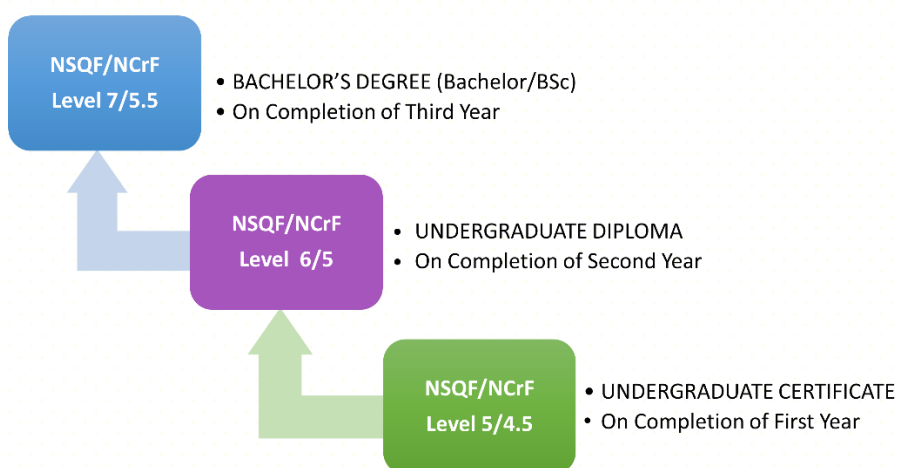
The one of a kind industry-academia blended, work integrated skill training programmes that prioritize job-specific skill development over traditional broad-based education offered by TISS SSE is being implemented for the first time in India. Each of the programmes reflects India's commitment to equipping its youth with essential skills through contemporary and industry-relevant curriculum designed in collaboration with industry partners to meet the growing demand for a 'skilled' workforce. All the programmes incorporate the skill sector's specific job roles and their corresponding National Occupational Standards (NOS).

The curriculum is an integration of general education and domain specific knowledge and job skills delivered through a blend of taught classes (40%) and practical skill training (50% to 60%) - a hallmark of TISS SSE's holistic skilling pedagogy, aligned with the NCrF 2023. Classes may be conducted in online/offline/blended mode either at the industry linked locations or at the neutral venue (a facility arranged for conducting classes). The on-the-job training (OJT) is conducted on the real shop floor of the thriving industries and companies of the skill sector.

The internship embedded "work while you learn" pedagogical process allows students gain the much needed work-oriented experiential learning and develop job skills while studying. The internships or on-the-job training (OJT) sometimes offers students the opportunity to earn stipends while engaging in the skill training.

### Programmes Offered

In the academic year 2025-26, the School of Skill Education offers 35 Bachelor Programmes, 5 Diploma Programmes, 13 Post Graduate Diploma Programmes, and 3 Short-term Skill Enhancement Programmes (StSEP) in the field of counselling, and health care sector, conforming to National Skills Qualification Framework (NSQF), National Credit Framework (NCrF), and UGC guidelines. The academic-cum-skill progression and certification with multiple entry and multiple exit (ME-ME) pathways of the Bachelor's programmes is illustrated below:



Every individual year of the 3-year Bachelor's degree programmes is a stand-alone certification aligned with the National Skills Qualification Framework (NSQF)/National Credit Framework (NCrF) at levels 4.5 for the first year, 5 for the second year and 5.5 for the third year, all awarded by TISS SSE and recognized across national and international universities.

The stand-alone Diploma programmes are provided at NSQF/NCrF level 5, and the stand-alone Post Graduate Diploma programmes are provided at NSQF/NCrF level 6 (for students holding 3-year degree certificates) and at NSQF/NCrF level 6.5 (for students holding 4-year degree certificates).

### **Employment Readiness/Employability**

Students are equipped with job-ready skills at every exit point or certification level outlined above. Upon completion of the chosen programme, they can pursue one of the three broad career trajectories - placement/employment, entrepreneurship, or higher education. The work-integrated learning component, gained through on-the-job training (OJT) at industry workplaces, forms an integral part of the Bachelor's, Diploma and Postgraduate Diploma programmes. It provides students with valuable opportunities to apply, practice, and refine their skills in real work environments. This practical exposure not only enhances their professional competence but also significantly improves their employability prospects, as organizations are already familiar with the students who interned with them during their OJT and often prefer to absorb them as full-time employees.

### **Faculty School of Skill Education, TISS**

- Prof. Madhushree Sekher, Dean, School of Skill Education, TISS
- Ms. Jayabala Girish, Asst. Professor, School of Skill Education, TISS
- Dr. Yashwantrao Yadav, Asst. Professor, School of Skill Education, TISS
- Dr. Naser Islam, Asst. Professor, School of Skill Education, TISS
- Dr. Neha Christie, Asst. Professor, School of Skill Education, TISS
- Ms. Saritha C T, Asst. Professor, School of Skill Education, TISS

### **Research Associates**

- Dr. Onhring Langhu, Research Associate, School of Skill Education, TISS
- Dr. Santosh Kadu, Research Associate, School of Skill Education, TISS

### **Adjunct Professor/Faculty**

- Dr. Rajagopal Devara, Adjunct Professor (Senior Bureaucrat - Co-operatives), School of Skill Education, TISS
- Mr. Sumit Kati, Adjunct Faculty (Healthcare, Tourism and Hospitality), School of Skill Education, TISS
- Mr. Gopal Mani, Adjunct Faculty (Logistics and Sustainable Business), School of Skill Education, TISS
- Mr. Ravikant Yamarthy, Adjunct Faculty (Logistics and Supply Chain), School of Skill Education, TISS

\*Besides above, the School of Skill Education, TISS also has 325 Skill Instructors teaching skill programmes offered across Agriculture, Automotive, Banking, Financial Services and Insurance (BFSI), Capital Goods, Counselling, Electronics, Healthcare, Information Technology Enabled Services (IT-ITeS), Life Sciences, Logistics, Management & Entrepreneurship, Media & Entertainment, Power, Tourism & Hospitality, Retail Association, and Sports skill sectors in the industry linked locations.

### **Unit Heads, School of Skill Education, TISS**

- Mr. Gaurav Shinde, Programme Head-Skilling, School of Skill Education, TISS
- Ms. Manisha Kantak, Head-Operations, School of Skill Education, TISS
  - Suvarna Gaikwad, Senior Manager – *Banking, Financial Services and Insurance (BFSI), Information Technology-Information Technology Enabled Services (IT-ITeS), Management & Entrepreneurship and Professional Skills (MEPS), Telecom*
  - Minaxi Mistry, Senior Manager – *Life Sciences, Automotive, Retail Association, Tourism and Hospitality, Capital Goods, Power and Sports*
  - Archana Maharaj, Senior Manager – *Agriculture, Electronics, Education*
  - Manasi Chavan, Senior Manager – *Healthcare & Childcare*
  - Nikita Rathod, Senior Manager – *Media and Entertainment, Food Processing and Logistics*
- Ms. Surabhi Damle, Head - Examination & Certification, School of Skill Education, TISS
- Dr. Kimnei Salviana Leivon, Head-Content, School of Skill Education, TISS
- Ms. Komal Mayekar, Head-Administration, School of Skill Education, TISS

\*As of 4 September 2025, the School of Skill Education has a total of 86 staff members across 9 departments.

## Eminent Alumni of the School

The School of Skill Education, TISS has been offering/ imparting various skill education and training programmes conforming to the National Skill Qualification Framework (NSQF), National Credit Framework (NCrF) and the University Grants Commission (UGC) guidelines for more than a decade, which is replete with many accomplishments and success stories. On completion of the programmes opted for, students from the School of Skill Education (SSE) normally take three career pathways, namely placement/employment, higher education and entrepreneurship. Some of the eminent alumni of the School (representative of batches 2014-17, 2015-18, 2016-19, 2017-20, 2018-21, 2019-22, 2020-23, 2021-24) are as follows:

### 1. Placement/employment and Testimonials

- Mr. Avinash Patnaik, BSc in Medical Imaging Technology (2021-24 batch), has advanced his career as a Senior MRI Technologist, delivering quality care to diverse patient needs.
- Nihala T K, BSc in Medical Laboratory Technology (2020-23 batch), Lab Technologist Trainee at Iqraa community clinic.
- Abdul Basith. NK, BSc in MLT (2017-20 batch), Band 5 Radiographer at Doncaster and Bassetlaw teaching hospital, U.K.
- Vrushabh Ajay Nashikkar, B.Voc. in Banking, Financial Services and Insurance (2017-2020 batch), Assistant Manager at Kotak Securities, Nagpur.
- Shivam Kumar, B.Voc. in Medical Laboratory Technology (2017-2020 batch), Sonographer, Sapna Diagnostics Centre, Patna.
- Bhanu Pratap, B.Voc. in Hotel Management (2017-20 batch), Guest Service Associate at Taj Lands End, Mumbai.
- Bhavana Sharma, Post Graduate Diploma in Medical Emergency Services (2017-20 batch), Assistant Medical Officer, Mumbai Municipal Corporation, Mumbai.
- Bessy Basil, B.Voc. in Agriculture (2017-20 batch), Field Supervisor at Pradhan Mantri Fasal Bima Yojna, Trivandrum.
- Majidha Farshana M.P., B.Voc. in Dialysis Technology (2014-17 batch), Physician Assistant in Mediclinic Hospital, Dubai.
- Afsina V.E., B.Voc. in Dialysis Technology (2014-17 batch), Dialysis Technologist in European Emirates Hospital, UAE.
- Muhammed Saheer E., B.Voc. in Dialysis Technology (2014-17 batch), Dialysis Technologist in Hamad Medical Corporation Hospital, Qatar

“During my B.Voc. in Agriculture at TISS I got the opportunity to undergo on-the-job training at Krishi Vigyan Kendra, Thiruvananthapuram, where I gained essential knowledge and hands-on experience in agriculture, management, and leadership. This practical exposure played a crucial role in shaping my professional skills and confidence, preparing me to take on leadership responsibilities in the agricultural sector. After completing my degree, I took on the role of Chief Executive Officer (CEO) at Ksho Farmer Producer Company (FPO), a project under the Cereal Systems Initiative for South Asia (CISSA) funded by the Small Farmers’ Agri-Business Consortium (SFAC). In this position, I have been able to apply the practical knowledge and managerial insights acquired during my studies to lead the organization toward growth and sustainability.

Throughout my academic journey at the School of Skill Education, TISS I actively participated in practical assignments and internships that deepened my understanding of agricultural systems, business management, and the real-world challenges faced by farmers. These experiences built a strong foundation for my current leadership role, where I am dedicated to improving farmers’ livelihoods and strengthening the agricultural ecosystem. Under my leadership, Ksho FPO has made significant progress in enhancing farmers’ income by promoting better agricultural practices, facilitating market linkages, and offering value-added services. Through collective effort and innovation, we have been able to create a more efficient and transparent supply chain, ensuring that farmers receive fair prices for their produce. My journey so far has been deeply fulfilling, as I continue to work towards empowering the farming community and contributing to the sustainable growth of the agricultural sector.”

*- Ms. Rakhi R., B.Voc. in Agriculture  
(2021-24 batch), CEO at Ksho Farmer  
Producer Company (FPO).*

“Pursuing a bachelor degree in Graphics and Multimedia (2021-24 batch) from the School of Skill Education, Tata Institute of Social Sciences (TISS) was one of the best decisions of my academic and professional life. The course provided me with a strong foundation in design principles, multimedia technologies, and creative problem-solving, which have been instrumental in shaping my career as a graphic designer. One of the standout aspects of this programme was its emphasis on practical learning. Through hands-on projects, industry-relevant assignments, and exposure to real-world design challenges, I was able to sharpen my skills and develop a strong portfolio. The faculty members, with their vast industry experience, ensured that we learned not only the theory behind design but also how to apply it effectively in different professional settings. A major turning point in my journey was the invaluable internship and on-the-job training opportunities provided by the Institute. Working with companies like Paxallax Labs, The Wishing Factory, and Ace Academy allowed me to experience different aspects of the design industry first-hand. These experiences helped me understand the demands of the industry, refine my technical skills, and improve my ability to work in a team under real project deadlines. Each organization provided unique challenges that expanded my creative and technical capabilities. At Paxallax Labs, I delved deep into digital design, learning how to create user-friendly interfaces and engaging visuals. The Wishing Factory gave me the opportunity to work on impactful projects, where my designs contributed to meaningful social causes. Ace Academy helped me refine my skills in educational graphics, making learning materials visually appealing and engaging. These internships were pivotal in boosting my confidence and preparing me for the professional world.

With the rich training and experience I gained throughout my academic journey, I was able to transition smoothly into a full-time role as a Graphic Designer. Today, I am proud to be working successfully in the industry and earning a competitive salary that reflects my skills and expertise. The practical knowledge, exposure, and hands-on experience I acquired during my course at the School of Skill Education, TISS played a crucial role in this achievement. I would highly recommend the Bachelor in Graphics and Multimedia at TISS to anyone who is passionate about design and wants to build a rewarding career in the creative field. This course is not just about learning, it is about experiencing, creating and growing into a skilled professional ready to take on the industry’s challenges.”

*- Ms. Prachi Mohite, Bachelor in Graphics and Multimedia (2021-24 batch), Graphic Designer, Prints Smart Private Limited.*

"I have been in the field of medical imaging from the last 7-8 years, in association with various hospitals such as Godrej Hospital, Hinduja Hospital, and Utkarsh Scan where I got an excellent opportunity to learn my medical imaging skills. Learning physics and technical subjects related to MRI taught by our expert faculties and hands-on training done under the guidance and supervision of industry experts during on-the-job training while pursuing BSc in Medical Imaging Technology (2021-24 batch) from the School of Skill Education, TISS helped me cracked the interview to work in Kokilaben Hospital.

With the excellent knowledge and skills gained through the extensive experiences I am currently working as a Senior MRI Technologist at Kokilaben Hospital, handling patients coming for health checkup and trauma cases, earning well-recognized and rewarding salary that reflects my professional expertise and dedication. All the learnings gained from the School of Skill Education, TISS are helping me to work at my best potential. The learnings from generic courses have helped me to manage handling different types of patients and provide quality services with empathy."

*- Mr. Avinash Patnaik, BSc in Medical Imaging Technology (2021-24 batch), Senior MRI Technologist at Kokilaben Hospital.*

"The School of Skill Education, Tata Institute of Social Sciences gave me the opportunity to perform hands-on training and associate with St. George's Hospital, Jupiter Hospital, and Vedant Hospital in Mumbai while pursuing my BSc in Medical Imaging Technology during 2021-24. This provided me an excellent academic, clinical and technical exposure. I am currently working at DPML, Thane; Dr. APJ Abdul Kalam College of Paramedical Science, Navi Mumbai; and Saraswati Paramedical Institute, Kharghar as a faculty teaching students various Diploma programmes in radiation safety, patient care, radiology equipment, contrast media in diagnostic radiology, radiology quality control; and BSc and B.Voc. programmes in medical imaging technology, earning approximately 4 lakhs per annum. Also, I am into developing content for various programmes. I am very pleased that the technical and clinical skills I have learnt strengthened/ enhanced my academic performance."

*- Ms. Jyoti Guru, BSc in Medical Imaging Technology (2021-24 batch), Faculty at DPML, Dr. APJ and Saraswati Paramedical Institutes.*

“I have completed B.Voc. in Industrial Tool Manufacturing. I was interested in pursuing my career in Manufacturing sector, so I chose this programme. My on-the-job training was conducted by Titan Watch Company. This training was beneficial to me. It helped me earn my own money in the form of stipend. Joining B.Voc. helped me to grow personally and professionally. I was placed in tool manufacturing section. So, I could easily connect the theory with practical. I learnt how to operate machines and set the components in conventional machines (milling, surface grinding, lathe) and press power machines.

After completing B.Voc., I again joined Titan Watches Company as a trainee. During this period, I gained more technical knowledge related to my domain area. It helped me to appear in the interview more confidently. In January 2020, I was selected as ‘Junior Production Associate trainee’. Now I am on payroll of Titan Watches as Associate Technical officer. I am proud of my achievement.”

*– Sujeesh S., B.Voc. in Industrial Tool Manufacturing (2015-18 batch), Associate Technical Officer at Titan Company Ltd, Coimbatore.*

“I am Abhishek Kumar Ojha, a student of Tata Institute of Social Sciences- School of Vocational Education, Mumbai. I completed my B. Voc. in Medical Laboratory Technology from Patna (batch 2017-2020). I could learn a lot and became an experienced healthcare professional while pursuing this programme. During this period I was placed at Apollo Hospital for on-the-job training. Here I worked with Covid 19 patients. As a lab technology student, I used to collect samples of suspected patients. I also participated in awareness and psycho-social support activities during the pandemic. I worked with NGO Manav Kalyan which used to organize health camps in the community. The organization awarded me a certificate as Covid Warrior.

Later on, I got a job in Apollo hospital as junior lab technician. Then, I got an opportunity to work at Dr Lal PathLabs, Purnea district. Now, I have been promoted as Senior Laboratory Technician at Lal PathLabs, Bhagalpur.

I am thankful to all my faculties and TISS SVE who supported me becoming an experienced lab technician.”

*– Abhishek Kumar Ojha, B.Voc. in Medical Laboratory Technology (2017-20 batch), Senior Laboratory Technician at Lal Pathology Laboratory, Bhagalpur, Patna*

“I began my career journey in hospitality as a B.Voc. in Hotel Management (Golden Threshold Programme) student at TISS SVE (2017-2020), training at Taj Bengal, Kolkata. During this time, I gained hands-on experience across various departments and developed my butler skills while serving distinguished guests such as Mr. Mani Lal Bhawmick, an Indian-American physicist and philanthropist. My performance as a trainee earned me the opportunity to join the prestigious Hotel Operations Trainee (HOT) programme at Taj Exotica Resort & Spa, Andamans. There, I took on new challenges, from managing guest expectations to maintaining the brand’s high standards. I enhanced the Settlers restaurant experience and introduced the ‘Exotica Experience’ – an initiative that elevated guest satisfaction and contributed to the F&B department’s revenue. With the butler skills I gained at Taj Bengal, I had the honour of personally serving VIP guests, including the Honourable President of India, Smt. Droupadi Murmu, and Ms. Kangana Ranaut. Today, as Assistant Restaurant Manager at Taj Exotica Resort & Spa, Andamans, I continue to uphold service excellence, lead my team with passion, and contribute to creating memorable experiences for every guest.”

*- Mr. Manorath, B.Voc. in Hotel Management (Golden Threshold Programme) 2017-20 batch, Asst. Restaurant Manager at Taj Exotica Resort & Spa, Andamans.*

“It gives me immense joy to share my career journey that started in the classroom of TISS’ School of Skill Education as a student of the Bachelor in Hotel Management (Golden Threshold Programme) to my current role as Restaurant Manager at Taj Corbett, Uttarakhand. From a rural area in Uttarakhand, I arrived at Mumbai in 2016 end with the aspiration to build a career in hospitality. Initially, I worked at the Taj Mahal Palace on a contractual basis, where I heard about the Golden Threshold Programme at TISS and applied for it. My selection to study at the School of Skill Education led to my next opportunity at Taj President where I underwent on-the-job training from 2017 to 2020. The programme was truly transformative, offering a perfect blend of academic learning and practical exposure. After completing the degree, I joined Vivanta Srinagar as a Hotel Operations Trainee (2021-2022) and later moved to Taj Corbett as an Executive. Through dedication and consistent performance, I was promoted to Restaurant Manager in August 2023.

I am deeply grateful to TISS’ School of Skill Education for the transformative learning experience that built a strong foundation for my professional growth and guided me towards achieving my goals in hospitality.”

*- Mr. Naresh Singh Kark, Restaurant Manager at Taj Corbett.*

“Travelling has always been my passion and when the time came for choosing a career, I could not opt for anything else but Travel and Tourism. After analysing various programmes in this field, I decided to join B.Voc. in Travel and Tourism offered by Tata Institute of Social Sciences. The learning, growth, career guidance and hike in stipend I received during the course in each year was remarkable. The most important factor was that although the degree was in travel and tourism, it also covered other subjects like HR, Accounting, Economics, Health & Fitness and Communication.

After completing the degree in June 2021, I worked with a travel agency for a few months and then I got an opportunity to work at Bangalore International Airport.

That was a turning point in my career. This could happen because of the confidence I received during my degree programme. Currently, I am working with Air Asia as a Customer Service Agent at the Dabolim International Airport (Goa). I could become a travel professional because of this programme. Thanks TISS, all my KPSTs and Patriot Aviation College, Thrissur, the service provider of this programme”.

*- Thomas Jain, B.Voc. in Travel and Tourism (2018-21), Customer Service Agent, Air Asia at the Dabolim International Airport, Goa.*

“I am Shifana from Thrissur and I am a graduate in Travel and Tourism. Actually, I never thought of working in the field of Travel & Tourism until I completed my higher secondary education. Then my uncle suggested me to consider B. Voc. in Travel. I joined the course. I loved college life with internships in every semester and the familiarization trips that we had in each year. Now, I am working with Spice Jet Airlines as a Customer Service Agent. I feel so happy sharing my achievement”.

*- Fathimathul Shifana, B.Voc. in Travel and Tourism (2018-21), Customer Service Agent at Cochin International Airport, SpiceJet, Cochin.*

“I was working as an Anganwadi Sevika for 12 years before I joined the Early Childhood Development (ECD) course at Mukhtangan. I separated from my husband and shifted to my mother’s house. Before this, I tried multiple options as I was desperate to earn and become financially independent. During this phase of life my self-esteem was quite low. So much that I had suicidal feelings. I suffered tremendous financial hardship. There seemed no clear plans or goals. One day my cousin sister told me about TISS SVE and possibility of becoming a play school teacher. I had experience of ECD but when I joined TISS SVE I understood the advantage of the course. I realised TISS SVE uses best practices for child’s holistic development. I became better in English speaking and there was a lot of improvement in my communication skills.

I was lucky to get a job at Mukhtangan as a Junior K. G. teacher. After that I was promoted to Senior K. G. The flexibility at TISS SVE was very convenient for me. I got a job after completion of first year. I completed my second and third year while working as a teacher at Mukhtangan. Now, I have completed B. Voc. and I am teaching children of class 3 and 4. Here, as a teacher I get respect from students and parents. It has helped me a lot to come out of my situation and gain self-respect. Now, I am staying alone, independently!”

*- Radhika Ratnakar Kadam, B.Voc. in Early Child Development (2017-20), Primary Teacher at Mukhtangan Education Trust, Mumbai.*

“I was a shy person and had fear of public speaking. I joined TISS SVE B. Voc. in 2018. This course transformed my life completely. Thanks to this course that I am now working in Axis Bank as a Sales Executive! My job involves interaction with customers, hence my fear of public speaking has disappeared and my communication skills have improved too. Now, I am a confident and independent person. This job helped me a lot during Covid-19 pandemic. I was able to support my family during the tough time. Thank you, TISS SVE, for enhancing my skills and knowledge.”

*- Rajeshwari Prajapati, B.Voc. in Sales and Marketing (2018-21), Sales Executive at Axis Bank, Ahmedabad.*

“I am Rishika! I feel that B. Voc. in Software Development is much better than other degree programmes. In the first year itself, I got internship opportunity in a company.

This gave me an opportunity to enhance not just my skills but also grow as an individual. My work experience gave me an edge over other candidates who were searching for jobs in the market. I got through all the screening process of different multinational companies and finally decided to join Publicis Sapient as a Media Analyst L1 in Digital Marketing Google Search Department. I am quite happy with my decision of joining the B. Voc. Software Development programme.”

*- Rishika Nehra, B.Voc. in Software Development (2018-21), Media Analyst L1 at Publicis Sapient, Delhi.*

“I would like to share the joy of getting placed in Eicher Motors just after completing my graduation. I had joined B.Voc. programme in the year 2018. On-the-job training done at various authorised service centres helped me to understand the working of shop-floor practices at automobile service centres. I would like to express my gratitude to TISS for structuring such a job assured course that uplifts the future of unemployed Indian youth and guiding me to acquire skills as an automobile service technician.”

*- Jishnu K.V., B.Voc. in Automobile Servicing Technology (2018-21) Technician Trainee at Eicher Motors, Cochin.*

“I belong to Ambedkar Nagar, Uttar Pradesh. My father is a farmer and we are 5 members in the family. We hardly get adequate income to fulfil the needs of the family. It was not possible for me to continue my education after 12<sup>th</sup> because it was not affordable to us. Earning was more important for me. So, I joined a short-term course (3 months) at PMKVY near my hometown to learn some livelihood skills. There I got to know about 3 years degree programme B. Voc. in Electronics Manufacturing Services offered by Tata Institute of Social Sciences. I joined the programme. I could earn monthly stipend. My fees were paid by the company. This was a very good opportunity for me - learn and earn. My dream came true. I got a lot of work experience. On completion of my degree, I got selected at OPPO India Pvt. Ltd., as In-Process Quality Control Engineer. I am earning Rs. 27,000 per month now. This is a major achievement in my life.”

*- Mahesh Maddheshiya, B.Voc. in Electronics Manufacturing Service (2016-19 batch), Quality Engineer at OPPO Mobiles India Pvt. Ltd., Ambedkar Nagar, UP.*

## 2. Pursuing Higher Education and Testimonials

Some alumni from the School of Skill Education who have secured admissions into prestigious Institutions for pursuing their higher education within the country and abroad are below:

- Ms. Namrata Shirsat, alumna of the Bachelor in Graphics and Multimedia (2021-24 batch), has embarked on a journey of global learning, currently pursuing her MA in International Relations at Coventry University, UK. By integrating her strong media foundation from TISS SSE with international studies, she is broadening her academic and professional horizons while bridging creative skills with global perspectives.
- Ms. Soorya Ramesan, an alumna of SSE from BSc in Medical Lab Technology (2020-23 batch) secured First Rank at NITTE University for pursuing MSc in MLT (Haematology and Blood Transfusion) for the academic year 2023-25.
- Mr. Shyam G, BSc in Medical Lab Technology (2020-23 batch) pursuing Master in Hospital Administration and Medical Tourism at Yenepoya University, Karnataka
- Ms. Dilna Joseph, a graduate of B.Voc. in Medical Imaging Technology (2019-2022 batch), is pursuing her Master's Degree in Public Health from University of Central Lancashire (UCLan), Preston, UK.
- Ms. Dhruvi Kansara, a graduate from B.Voc. in Software Development (2019-2022 batch), is pursuing her higher studies at the Institute of Technology and Advance Learning, Ontario, Canada.
- Mr. Nazim Malik, a graduate in B.Voc. in Medical Imaging Technology (2019-2022 batch), is pursuing his Master's programme from Tzu Chi University of Science and Technology, Taiwan.
- Mr. Darwin Thadeus, B.Voc. in Hotel Management (2019-2022 batch) is pursuing Master of Arts in Hospitality Tourism and Event Management from Berlin School of Business and Innovation, Germany.
- Mr. Soham Jitendra Limbkar, who completed Post Graduate Diploma in HR and Administration (December, 2022), is pursuing MBA in HR from Institute of Technology & Management (ITM), Kharghar, Mumbai.
- Ms. Claudia Anna Sabu, B.Voc. in Agriculture (2018-21 batch), is pursuing M.Sc in Environment Science from B.T. University, Germany.
- Mr Pradyumna Telkhade, a graduate of Bachelor in Banking, Financial Services and Insurance (BSFI) programme (2017-2020 batch) took the higher education career pathway to pursue his Masters from Indian Institute of Management, Kozhicode, with a pre-placement offer from ICICI Bank.

“I developed a deep understanding of graphics and multimedia during my Bachelor’s in Graphics and Multimedia at the School of Skill Education, Tata Institute of Social Sciences (TISS). Over three enriching years, I gained both creative and technical expertise while completing exciting internships that shaped my professional journey and allowed me to connect with inspiring industry professionals.

TISS’s School of Skill Education provided me with valuable internship opportunities at renowned production companies and organizations such as Webcam Infotech, Vipla Foundation, Post Men Studios, and Krazy Innovations. The excellent teaching staff assisted us in every way and made complex concepts easy to grasp, ensuring students mastered key software tools with confidence. I am truly grateful for the constant guidance and support I received from the TISS faculty throughout my studies. Currently, I am pursuing an MA in International Relations at Coventry University, United Kingdom - an international media-focused programme that complements and builds upon my undergraduate studies. “

*– Ms. Namrata Shirsat, Bachelor in Graphics and Multimedia (2021-24 batch), Pursuing MA in International Relations, UK.*

“Being a younger child in the family and always protected, I never knew my capability until I joined the course. Initial months of on-the-job training had been very tough and many a time I thought, I just can’t do it. My school friends who joined other courses used to enjoy all the time while I was into training and learning entire week, 10 hours of training and 24 kms of travel in a day. Gradually, I understood the B. Voc. course structure and I started taking interest in it. My faculties and supervisors helped me in this process. Now I am looking after the entire department in my company and on the Independence Day (August 15 ,2021), my company gave me the award for working sincerely and diligently. This has been the proudest moment for my parents, family, teachers and my college. The B.Voc. model is very well designed and it has made me financially independent. It helped me to develop various life skills too. I feel B.Voc. is the only course that helps in overall development. Now I have joined MBA in Operations and looking forward to achieving more success in my career. I am grateful to Tata Institute of Social Sciences, Perfext College of Training and Education, Rajkot and my Knowledge Partner for Skill Training, Ganga R.K. Industries, Rajkot for making me the person I am today.”

*– Keyur Zala, B. Voc in Production Technology (2018-21), Pursuing MBA in Operations, Rajkot.*

### 3. Self-employment and Testimonials

- Ms. Noopur Mahesh Rajguru, Bachelor in Journalism (2019-22 batch), Self-employed CEO, at Sticks and Stones, Mumbai.
- Mr. Stotra Manish Bhatia, Bachelor in Banking, Financial Markets and Insurance (2019-22 batch), Self-employed Mutual Funds Distributor, at M/s Stotra Bhatia Mutual Funds.
- Mr. Dnyaneshwar Subhash Gadekar, B.Voc. in Medical Laboratory Technology (2019-22 batch). Self-employed Head, at Om Computerized Lab, Aurangabad.
- Kuldeep Kumar, B.Voc. in Renewable Energy (2018-21 batch), Self-employed Vendor of solar panels
- Harshad Pardhi, B.Voc. in Medical Laboratory Technology (2017-20), Owner of a Medical Lab Collection Centre
- Mr. Kuldeep Singh, B.Voc. in Renewable Energy Technology (2017-20 batch), Self-employed Vendor of solar panels, Lucknow
- Leander Viegas, B. Voc. in Graphics and Multimedia (2017-20 batch), Self-employed, Freelancer as Graphic Artist, Mumbai

“I am from Sadikpur Sinauli, Baghpat district, Uttar Pradesh. I have completed my B.Voc. internship from Battery House company, Lakhimpur. My B.Voc. degree has given me three years of work experience in solar energy sector where I learnt solar panel installation and marketing. Due to the lockdown, I could not get stipend and could not pay my fees. It was not possible for me to continue with my studies. At that crucial time TISS SVE through its service provider in Lucknow, Shri Balaji Projects, helped me secure a scholarship of APRAAVA Energy Pvt. Ltd. This timely support enabled me to successfully complete my studies.

Today, I am self-employed as a solar panel vendor and installer. I am proud to share that I am financially independent, have been able to support my sister’s education, and even bear the expenses of her marriage with my own earnings. I am sincerely grateful to TISS for the guidance and support. I now look forward to building a successful career in the renewable energy sector and contributing to a sustainable future.”

*– Mr. Kuldeep Kumar, B.Voc. in  
Renewable Energy (2018-21), Vendor  
of solar panels, Lucknow.*

“After completing my graduation in Mathematics, I was exploring options for my future when a family friend introduced me to the B.Voc. in Renewable Energy Technology. My uncle, a plastics engineer, also encouraged me to take up this field, seeing its vast potential. I realized that the solar energy sector offered a promising and sustainable career path. While pursuing this programme, I completed my internship at Wilson Solar Energy and other companies, which proved to be an invaluable learning experience. Working under the guidance of experts, including Neeraj Bajpae Sir, helped me understand the technical aspects of solar energy equipment and installation in depth. After completing the programme, I joined my friends’ firm, Golden Ball Enterprises, where I continue to work. Alongside, I have also begun taking contractual projects independently with companies such as Sun Wind Devices, which has a tie up with Tata Power for raw materials and other reputed organizations. These experiences have enriched my technical knowledge and provided me with strong professional and financial growth.

I am now working towards establishing my own company in the solar power sector, and I am confident that I will achieve this goal soon. I am extremely grateful to TISS SVE for guiding me towards a field that aligns with both my passion and purpose, and for laying the foundation for my success in the renewable energy industry.” – Mr. Kuldeep Singh, B.Voc. in Renewable Energy Technology (2017-20), Vendor of solar panels, Lucknow.

I am the eldest of three siblings and have always been passionate about the medical and paramedical field. Although there were colleges offering diploma programmes, there were no degree colleges in my area that provided a course in Laboratory Management, which I wanted to pursue. When I learnt about the B.Voc. in Medical Laboratory Technology (MLT) at TISS SVE, I joined the programme as it was the most affordable and promising degree option.

My father is a teacher and my mother is a homemaker. In my family, everyone valued stability and preferred secure jobs over entrepreneurship. Starting a business was not encouraged, as it was considered risky. However, I was determined to follow my passion. I convinced my family and, despite all challenges, started my own collection centre in 2020, immediately after completing the course.

Becoming a first-generation entrepreneur has transformed my life. Today, I am confident about expanding my work and setting up more laboratories in remote locations. I also provide internship opportunities to students at my centre. I am deeply grateful to TISS SVE for instilling confidence and entrepreneurial spirit in me and helping me turn my dream into reality.”

– Mr. Harshad Pardhi, B.Voc. in  
Medical Laboratory Technology  
(2017-20), Owner of a Medical Lab  
Collection Centre, Gondhia.

**List of UG Programmes with Total Credits & Duration  
(NSQF/NCrF levels 4.5, 5, 5.5)**

Sr. No.	Sector Name	Programme Name	Total Credits	Duration (Years)
1.	<b>Agriculture</b>	Bachelor in Agriculture	132	3 Years
2.	<b>Automotive</b>	Bachelor in Automotive Servicing Technology	132	3 Years
3.		Bachelor in Automotive Manufacturing Technology	132	3 Years
4.	<b>Banking, Financial Services and Insurance (BFSI)</b>	Bachelor in Banking, Financial Services and Insurance	132	3 Years
5.	<b>Child Care</b>	Bachelor in Child Protection	132	3 Years
6.		Bachelor in Early Child Development	132	3 Years
7.	<b>Capital Goods</b>	Bachelor in Industrial Tool Manufacturing	132	3 Years
8.		Bachelor in Mechatronics Technology	132	3 Years
9.		Bachelor in Production Technology	132	3 Years
10.	<b>Electronics</b>	Bachelor in Electronic Manufacturing Services	132	3 Years
11.		Bachelor in Office Automation	132	3 Years
12.		Bachelor in Refrigeration and Air Conditioning	132	3 Years
13.	<b>Education</b>	Bachelor in Applied Social Research	136	3 Years
14.	<b>Healthcare</b>	BSc in Medical Imaging Technology	132	3 Years
15.		BSc in Medical Laboratory Technology	140	3 Years
16.		BSc in Dialysis Technology	132	3 Years
17.		B. Optom (Bachelor of Optometry)	204	4 Years
18.		BSc in Patient Care Management with Specialisation in Palliative Care and Geriatric Care	142	3 Years
19.	<b>IT - ITeS</b>	Bachelor in Software Development	132	3 Years

20.		BSc in Artificial Intelligence and Machine Learning	132	3 Years
21.	<b>Life Sciences</b>	BSc in Pharmaceutical Manufacturing	132	3 Years
22.		BSc in Manufacturing Technology (Pharmaceutical Chemistry)	132	3 Years
23.	<b>Management &amp; Entrepreneurship</b>	Bachelor in Sales and Marketing	132	3 Years
24.		Bachelor in Operations	132	3 Years
25.	<b>Media &amp; Entertainment</b>	Bachelor in Graphics and Multimedia	132	3 Years
26.	<b>Power</b>	Bachelor in Renewable Energy Technology	132	3 Years
27.	<b>Retail Association</b>	Bachelor in Retail Management (The Retail Ready Programme)	132	3 Years
28.		Bachelor in Retail Management with Specialisation in Automotive Retail	132	3 Years
29.		Bachelor in Retail Management with Specialisation in Automotive Retail (in Collaboration with Maruti Suzuki India Ltd.)	132	3 Years
30.	<b>Sports</b>	Bachelor in Sports Management	118	3 Years
31.	<b>Telecom</b>	Bachelor in Telecommunication	132	3 Years
32.	<b>Tourism &amp; Hospitality</b>	Bachelor in Travel and Tourism	132	3 Years
33.		Bachelor in Hospitality Management	132	3 Years
34.		Bachelor in Hotel Management	132	3 Years
35.		Bachelor in Hotel Management (Golden Threshold Programme)	132	3 Years

**List of Diploma Programmes with Total Credits & Duration (NSQF/NCrF Level 5)**

Sr. No.	Sector Name	Programme Name	Total Credits	Duration (Years)
36.	Agriculture	Diploma in Agriculture and Agri Input Management	44	1 Year
37.	Healthcare	Diploma in Operation Theatre Techniques	92	2 Years
38.		Diploma in Emergency Medical Technician	88	2 Years
39.		Diploma in Geriatric Care	88	2 Years
40.	IT - ITeS	Diploma in Computer Applications	44	1 Years

**List of PG Diploma Programmes with Total Credits & Duration (NSQF/NCrF Level 6)**

Sr. No.	Sector Name	Programme Name	Total Credits	Duration (Years)
41.	Agriculture	Post Graduate Diploma in Agribusiness Management	48	1 Year
42.	Banking, Financial Services and Insurance (BFSI)	Post Graduate Diploma in Banking, Financial Markets and Insurance	48	1 Year
43.		Post Graduate Diploma in Bank Credit Management	48	1 Year
44.		Post Graduate Diploma in Markets, Banking and Operations	48	1 Year
45.	Child Care	Post Graduate Diploma in Early Child Development and Education	51	1 Year
46.	Food Processing	Post Graduate Diploma in Food Technology	48	1 Year
47.	Healthcare	Post Graduate Diploma in Dialysis Technology	46	1 Year
48.		Post Graduate Diploma in Emergency Medical Services	48	1 Year
49.		Post Graduate Diploma in Medical Laboratory Technology	54	1 Year

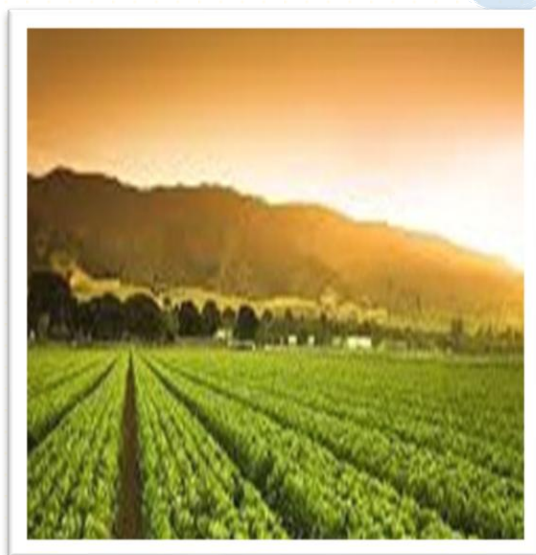
50.		Post Graduate Diploma in Histotechnology and Cytotechnology	44	1 Year
51.	IT - ITeS	Post Graduate Diploma in Cyber Security	48	1 Year
52.	Logistics	Post Graduate Diploma in Logistics with specialisation in Drone Operations - Logistics	48	1 Year
53.		Post Graduate Diploma in Logistics with specialisation in Supply Chain Management	48	1 Year
54.		Post Graduate Diploma in Logistics with specialisation in Big Data and Data Analytics	48	1 Year
55.	Management & Entrepreneurship	Post Graduate Diploma in HR and Administration	48	1 Year
56.		Post Graduate Diploma in Digital Marketing	48	1 Year

# UNDERGRADUATE PROGRAMMES

# AGRICULTURE SECTOR

## Introduction of the Sector

Agriculture is one of the most vital skill sectors accounting for 18% of the Indian economy. It accounts for the livelihood of almost 58% of the Indian population. India being the leading producer of pulses, rice, wheat, spices, and spice products is one of the major players in agriculture sector. Furthermore, with the numerous government policies in place, the agriculture sector continues to show healthy symptoms and steadily climbing through the charts in green. Indian Agriculture sector contributes around 23% of the GDP. It provides employment to more than 65% of the population. The sector is facing an increasing complex business environment due to integration of world market, technological advancement, development of the derivative market, etc. To cater to this complexity skilled manpower is required to respond to the current situation and take quick and right decision.



## BACHELOR IN AGRICULTURE

### Programme Introduction

Agriculture is a broad field. It consists of many sub-disciplines and sub-branches. Bachelor in Agriculture covers all aspects of agriculture. Further, the programme itself comprises of various sub-industries like horticulture, floriculture, poultry, organic farming, and each industry has a large number of job roles and opportunities. Above all, there are huge self-employment opportunities in agriculture sector. The curriculum has been designed to include general education and skill development components,



having extensive practical and on-the-job training along with regular industry visits so that they can be easily engaged in agriculture industry or become entrepreneurs.

### Programme Objectives

- To provide adequate professional knowledge and skills along with general education.
- To enhance employability of the graduates so as to meet the industry requirements.
- To train students in professional agriculture.
- To understand crops production technology.
- To acquire knowledge and skills to run agro service centre.
- To prepare the graduates to do job or start own business in agriculture sector.

### Programme Learning Outcomes

- Students will gain the knowledge and practical skills in agriculture and allied sector.
- Students will gain soft skills and computer skills.
- To prepare students for the higher career prospects.
- To equip students to perform well in job as well as in their own start-up or business.
- To become professional agriculturist.

### Eligibility for Admission

The eligibility for admission to Bachelor in Agriculture is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Agriculture domain is capable of generating an abundant amount of job opportunities and different job profiles each year.*

*Government jobs, private sector jobs, self-employment opportunities are available for a graduate in Agriculture. The State Agriculture Departments (SAD) recruit graduates to fill up officer cadre posts. Private jobs include the managers at plantations, officers at fertilizer manufacturing.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	AGR 1.1	Basic Botany and Introduction to Indian Agriculture	2
	AGR 1.2	Agronomical Principles and Crop Production Practices (Kharif Season)	2
	AGR 1.3	Farm Machinery and Post Harvesting Technology	2
	AGR ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	AGR 2.1	Agronomical Principle and Crop Production Practices (Rabi Season)	2
	AGR 2.2	Principles of Floriculture and Landscaping and Basic Ideas of Agroforestry	2
	AGR 2.3	Indian Horticulture and Principles of Vegetables and Fruit Crops Cultivation	2
	AGR ST2	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	AGR 3.1	Concepts of Soil and Nutrient Management	2
	AGR 3.2	Principles of Irrigation Management	2
	AGR 3.3	Principles of Agriculture Meteorology	2
	AGR ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	AGR 4.1	Seed Production Technology	2
	AGR 4.2	Diagnosis of Crop Health Problems	2
	AGR 4.3	Food Processing and Preservation	2
	AGR ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	AGR 5.1	Concept of Agro-service and Agriculture Extension	2
	AGR 5.2	Emerging Concepts and Practices in Agriculture	2
	AGR 5.3	Insects and their Role in Agriculture	2
	AGR ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	AGR 6.1	Application of Microbiology in Agriculture	2
	AGR 6.2	Livestock, Poultry and Organic Farming Management	2
	AGR 6.3	Agro-processing Projects, Credit Planning and Corporate Farming	2
	AGR ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

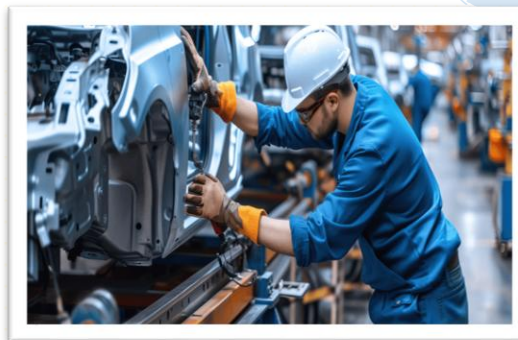
### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Agriculture
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Krushidham, MAHA - FPC, Krishi Vigyan Kendra, Cohesion Foundation Trust, Watershed Organisation
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> Year: UG Certificate at NSQF/NCrF Level 4.5</li> <li>• 2<sup>nd</sup> Year: UG Diploma at NSQF/NCrF Level 5</li> <li>• 3<sup>rd</sup> Year: Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# AUTOMOTIVE SECTOR

## Introduction of the Sector

The automotive industry in India is changing rapidly. Hence, competition is very high among the companies to get their share of profit. Automobile exports grew 15.54 percent during April 2018-February 2019. It is expected to grow at a Compound Annual Growth Rate (CAGR) of 3.05 percent during 2016- 2026. The automotive industry is among the top hirers in the Year 2017-2018 in India.



## BACHELOR IN AUTOMOTIVE SERVICING TECHNOLOGY

### Programme Introduction

Automotive Servicing Technology offers the students the techniques of installing, maintaining, repairing and replacing automotive parts. Those who are passionate about servicing the various parts of vehicles such as brake systems, engines, electrical and steering systems, etc. can be immensely benefitted by the programme.

The Indian automotive industry stands as one of the largest across the globe, contributing more than 7% of India's GDP. This highly competitive auto sector sets in motion an equally important automotive servicing and repair industry which is estimated to be worth Rs. 34,000 crores by the year 2020.



### Programme Objectives

- To develop basics of engineering and automotive industry, along with required soft skills
- To learn the basics of automobile servicing technology with additional personality development skills
- To understand and operate advanced technology in automotive machinery basics of administrative skills
- To develop an overview of concepts of computer designing and quality management
- To gain skills of diagnosis servicing, repair, maintenance and overhauling automotive engines and fuel types, and understand basics of the automotive market dynamics
- To learn latest automotive technologies such as Hybrid, Hydrogen, EV & Alternative Fuels with emphasis on employment opportunities
- To learn basic Trade Calculations and Science uses in shop floor

### **Programme Learning Outcomes**

At the end of this programme the students will be able to-

- Show capability in learning automotive engineering course and focus on personal grooming
- Adapt auto-servicing technology and apply mechanical aspects in real life
- Apply basic principles to the current technology with digitalization in the forefront and also literates self in administrative tools
- Converse in automobile servicing and develop capability to work on an actual shop floor of a professional company
- Gain deep understanding of auto engines, while learning that personal health and economics go hand-in-hand with any profession
- Become job-ready by gaining knowledge on vehicle performance and testing. Develop competency in starting an entrepreneurial venture as well.
- Measure various engine efficiencies and define thermodynamics and performance

### **Eligibility for Admission**

The eligibility for admission to Bachelor in Automotive Servicing Technology is 10+2 or equivalent, in any stream.

### **Career Prospects/Job Roles**

*Automotive Servicing Technology encompasses careers in the inspection, repair and maintenance of a vehicle's mechanical and electronic systems, including those found on cars, trucks, motorcycles, aircraft, marine and industrial vehicles.*

*Common job titles include Automotive Service Technician, Auto Instructor, Vehicle Inspector, Auto Body Technician, Auto Electrician, Auto Mechanic and Auto Engineer, Quality Testing Engineer, Automotive Workshop Manager, and Automotive Assistant Workshop Manager.*

*Workers in this field also might choose to specialize in a specific automotive area or equipment, such as tyres, alternative fuel vehicles, diesel vehicles, emissions systems and specialty fabrications. After successfully completing 3 years Bachelor's Degree Programme the student shall be able to start self- entrepreneurship in the similar areas*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	AS 1.1	Engineering Drawing	2
	AS 1.2	Applied Mechanic	2
	AS 1.3	Metallurgy and Material Science	2
	AS ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	AS 2.1	Machine Design and Drawing	2
	AS 2.2	Internal Combustion Engine	2
	AS 2.3	Strength of Materials and Structural Engineering	2
	AS ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	AS 3.1	Shop Floor Practices - I	2
	AS 3.2	Quality Management - I	2
	AS 3.3	Transport Refrigeration and Air Condition	2
	AS ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	AS 4.1	Shop Floor Practices - II	2
	AS 4.2	Quality Management - II	2
	AS 4.3	Metrology and Machine Tools	2

	AS ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	AS 5.1	Automotive Petrol and Diesel Engine	2
	AS 5.2	Automotive Fuels and Lubricants	2
	AS 5.3	<ul style="list-style-type: none"> <li>• Elective Course (Choose any 1)</li> <li>• Supply Chain Management (ASE-01)</li> <li>• Vehicle Dynamics (ASE-02)</li> <li>• Automotive Electrical and Electronics (ASE-03)</li> </ul>	2
	AS ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	AS 6.1	Automotive Chassis	2
	AS 6.2	Vehicle Performance and Testing	2
	AS 6.3	Elective Subject - II (Choose any 1) <ul style="list-style-type: none"> <li>• Supply Chain Management (ASE-01)</li> <li>• Vehicle Dynamics (ASE-02)</li> <li>• Automotive Electrical and Electronics (ASE-03)</li> </ul>	2
	AS ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: (Rs. 39,600/-per annum)**

**Examination Fees: (Rs. 1,600/- per semester and Rs.3200/- per annum)**

**Caution Deposit (Refundable): Rs.5000/-**

**Certification Charges: Rs. 2500/-**

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Automotive Servicing Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Popular Vehicles Services Ltd.
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN AUTOMOTIVE MANUFACTURING TECHNOLOGY

### Programme Introduction

Bachelor in Automotive Manufacturing Technology is a 3-year degree programme in skill education pertaining to automobile manufacturing sector. The course focuses on mechanics and technology driving the latest variety of cars.



### Programme Objectives

- To develop basics of engineering and automotive industry, along with required soft skills
- To learn the basics of automobile servicing technology with additional personality development skills
- To understand and operate advanced technology in automotive Machinery with basics of administrative skills
- To develop an overview of concepts of computer designing and quality management

- To gain skills of diagnosis servicing, repair, maintenance and overhauling automotive engines and fuel types, and understand basics of the automotive market dynamics
- To learn latest automotive technologies such as Hybrid, Hydrogen, EV & Alternative Fuels with emphasis on employment opportunities
- To learn basic Trade Calculations and Science uses in shop floor

### **Programme Learning Outcomes**

- Learn automotive engineering as a course and focus on personal grooming
- Adapt auto-manufacturing as a technology and apply mechanical aspects in real life
- Apply basic principles to the modern technology with digitalization in the forefront and also educate self in administrative tools
- Perform in manufacturing processes and display capability to work on an actual shop floor of a professional company
- Move at production level while understanding that personal health and economics go hand-in-hand with any profession
- Gain mastery by gaining knowledge on productive maintenance and quality management and also display capabilities in starting an entrepreneurial venture

### **Eligibility for Admission**

The eligibility for admission to Bachelor in Automotive Manufacturing Technology is 10+2 or equivalent, in any stream.

### **Career Prospects/Job Roles**

*Bachelor in Automotive Manufacturing Technology encompasses careers in the Mechanical Sub-Assembly Technician, Assembler (Automobile), Assembler (Stationery Petrol or Diesel Engine), Assembler (Electrical Accessories), CNC Operator, Machining Technician, Process Engineer, Quality Testing Engineer, Auto Designer, Auto Engineer, Automotive Workshop Manager and Automotive Assistant Workshop Manager.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	AM 1.1	Engineering Drawing - I	2
	AM 1.2	Automobile Engineering	2
	AM 1.3	Engineering Materials	2
	AM ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	AM 2.1	Engineering Drawing - II	2
	AM 2.2	Manufacturing Technology - Basics	2
	AM 2.3	Engineering Mechanics	2
	AM ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	AM 3.1	Manufacturing Technology - Advanced	2
	AM 3.2	Shop Floor Practices - I	2
	AM 3.3	Quality Management - I	2
	AM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	AM 4.1	Shop Floor Practices - II	2
	AM 4.2	Quality Management - II	2
	AM 4.3	Manufacturing Processes	2
	AM ST4	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	AM 5.1	Tool Engineering	2
	AM 5.2	Production Technology	2
	AM 5.3	Elective Subject - I (Choose any 1) <ul style="list-style-type: none"> <li>• Automotive Electrical and Electronics (AME 1)</li> <li>• Foundry Technology- Ferrous (AME 2)</li> <li>• CNC Programming (AME 3)</li> <li>• Product Design (AME 4)</li> <li>• Supply Chain Management (AME 5)</li> </ul>	2
	AM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	AM 6.1	Mechatronics	2
	AM 6.2	Total Quality Management and Total Productive Maintenance	2
	AM 6.3	Elective Subject - II (Choose any 1) <ul style="list-style-type: none"> <li>• Automotive Electrical and Electronics (AME 1)</li> <li>• Foundry Technology- Ferrous (AME 2)</li> <li>• CNC Programming (AME 3)</li> <li>• Product Design (AME 4)</li> <li>• Supply Chain Management (AME 5)</li> </ul>	2
	AM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Automotive Manufacturing Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	ZF Commercial Vehicle Control Systems India Ltd
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## Introduction of the Sector

Banking, Financial Services and Insurance (BFSI) are set to grow exponentially in India due to the rising per capita income, the introduction of new products, innovation in technology, expanding distribution, networking and increasing customer awareness of financial products. BFSI Industry has continued to be a top priority focus industry for India's economic development based on inclusive growth.



## BACHELOR IN BANKING, FINANCIAL SERVICES AND INSURANCE

### Programme Introduction

Bachelor in Banking, Financial Services and Insurance (BFSI) aims to train the students in various aspects of banking and its allied areas. The programme covers topics such as Banking, Finance, Insurance, Investment, Risk Management, and Cyber Security. Banking sector is growing at a healthy pace in India and is known to generate ample amount of job.



### Programme Objectives

- To gain a basic understanding of the banking systems, insurance markets, financial products and services
- To learn about mutual funds, security and depository markets, and the microfinance industry
- To apply the knowledge of quantitative techniques in analyzing data
- To formulate basic financial plans, conduct investment analysis, and cover the basics of portfolio management
- To apply the knowledge of cyber laws in BFSI
- To gain basic knowledge of credit, forex, treasury and risk management in banking systems

### Programme Learning Outcomes

At the end of this programme the students will be able to-

- Identify various financial products
- Will become familiar with mutual fund operations and the market for microfinance
- Perform lending operations
- Will Gain an understanding of agriculture and corporate banking

- Will gain an understanding of retail banks and NBFCs
- Process data and communicate the results effectively
- Develop and maintain customer relationships
- Market and sell financial products
- Excel in the field of BFSI
- Develop sound financial plans based on the customer needs for individuals, corporates, and financial institutions
- Analyze and manage risks associated with financial products
- Sustain customer base through effective communication and timely revision of financial plans

### Eligibility for Admission

The eligibility for admission to Bachelor in BFSI is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Students would be in a position to be employed by various banks which includes Retail, Corporate, Agriculture, NBFCs & Mutual Funds Organizations, Insurance Companies, Financial Planners, Insurance Advisors and Mutual Fund Advisors.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	BFSI 1.1	Introduction to Banking and Financial Services	2
	BFSI 1.2	Microfinance and Operations	2
	BFSI 1.3	Mutual Funds and Operations	2
	BFSI ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies and Sustainability	2
	BFSI 2.1	General Insurance and Operations	2
	BFSI 2.2	Introduction to Financial Planning	2

	BFSI 2.3	Indian Securities Markets	2
	BFSI ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	BFSI 3.1	MSME, Agriculture and Corporate Banking	2
	BFSI 3.2	Quantitative Techniques	2
	BFSI 3.3	Life Insurance and Operations	2
	BFSI ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	BFSI 4.1	The Business of Retail Banks and NBFCs	2
	BFSI 4.2	Financial Product Management	2
	BFSI 4.3	Customer Relationship Management	2
	BFSI ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	BFSI 5.1	Loans and Depository Operations	2
	BFSI 5.2	Advanced Corporate Banking	2
	BFSI 5.3	Investment Analysis and Portfolio Management	2
	BFSI ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	BFSI 6.1	Advanced Financial Planning Concepts	2

	BFSI 6.2	Introduction to Credit, Treasury, Forex and Risk Management in Banks	2
	BFSI 6.3	Cyber Security in BFSI	2
	BFSI ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 48,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Banking, Financial Services and Insurance
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	BFSI Sector Skill Council, Nirmal Bang Group, National Bulls, Vatvesa Insurance, Ronak Jain and Associate, Cams, Gadas Insurance and Investment, Deep Capital, Millenium Money Finance
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# CAPITAL GOODS SECTOR

## Introduction of the Sector

Manufacturing Industry has emerged as one of the growing sectors in India. The government of India launched the 'Make in India' initiative in 2014 programme to place India on the world map as a manufacturing hub and give global recognition to the Indian economy. Today, India is the fifth largest manufacturing country in the world accounting for about 3 percent of global manufacturing output and contributing about 17 percent to its GDP. In the third round Quarterly Employment Survey (QES) Report (Oct-Dec, 2021) a part of All India Quarterly Establishment based Employment Survey (AQEES) released by the Ministry of Labour and Employment, Manufacturing Industry is emerging as the largest employer accounting for 39 percent of the formal sector employment pie.



## BACHELOR IN INDUSTRIAL TOOL MANUFACTURING

### Programme Introduction

Bachelor in Industrial Tool Manufacturing is a unique 3-year undergraduate programme offered under the capital goods sector. The curriculum is designed to meet current industrial requirements with an emphasis on new manufacturing technologies and industrial practices.



### Programme Objectives

- Be employed in jobs related to designing, modelling, analyzing and managing modern complex systems, implementing and improving systems in manufacturing sectors at local, regional, national and global levels.
- Engaged in life-long learning, such as graduate studies and research, certification from professional organizations, fundamentals of engineering certification, or active participation in professional societies/activities.
- Demonstrate professional success as evidenced by increased job responsibilities and leadership role at the place of employment and in greater society, among others.
- Engineering/foundational knowledge in mathematics, engineering sciences, applied probability, computer science, humanities, and social science.
- Manufacturing engineering knowledge/skills in materials and manufacturing processes, process, assembly, and product engineering, manufacturing competitiveness, and manufacturing systems design.

- Understanding of professional and ethical behaviour to be prepared for ethical decision making, service to the engineering profession, and have the means to continue in the acquisition of knowledge.

### Programme Learning Outcomes

At the end of this programme the students will be able to-

- Excel in the field of Tool Manufacturing.
- Design and develop innovative and environmental friendly products useful to the nation and the society.
- Motivate to practice life-long learning in a team work environment.
- Will enable the graduates to become entrepreneurs in Manufacturing Engineering sector.
- Lay a solid foundation in engineering fundamentals that are required to solve industrial and societal problems.
- Acquire engineering knowledge to analyze, design and develop innovative products and provide solutions for the real-life problems.

### Eligibility for Admission

The eligibility for admission to Bachelor in Industrial Tool Manufacturing is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*In today's time, all the companies ask for industrial tool manufacturing degree in skill education space. The job positioning after completing degree in Industrial tool manufacturing are as follows: Assembly Supervisor, Assistant Plant Manager, Chief Manufacturing Executive, Chief Quality Control Executive, Civil Engineering Supervisor, Quality Assurance Manager and Distribution Manager.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	ITM 1.1	Engineering Graphics	2
	ITM 1.2	Metrology and Quality control	2
	ITM 1.3	Manufacturing Technology	2
	ITM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC

<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	ITM 2.1	Basic Electrical and Electronics Engineering	2
	ITM 2.2	Engineering Metallurgy	2
	ITM 2.3	Metal Forming Technology	2
	ITM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	ITM 3.1	Smart Manufacturing and Artificial Intelligence	2
	ITM 3.2	Industrial Automation	2
	ITM 3.3	Design of Jigs, Fixtures and Gauges	2
	ITM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	ITM 4.1	Computer Numeric Control (CNC) Machining Technology	2
	ITM 4.2	Press Tool Technology	2
	ITM 4.3	Total Quality Management	2
	ITM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	ITM 5.1	Mould Technology	2
	ITM 5.2	Electrical Drives and Controls	2
	ITM 5.3	Process Planning and Cost Estimation	2
	ITM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC

<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	ITM 6.1	Computer Aided Design (CAD)/ Computer Aided Manufacturing (CAM)/ Computer Integrated Manufacturing (CIM)	2
	ITM 6.2	Maintenance Engineering and Management	2
	ITM 6.3	Project Work	2
	ITM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor in Industrial tool Manufacturing
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Varroc Engineering
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN MECHATRONICS TECHNOLOGY

### Programme Introduction

Bachelor in Mechatronics Technology is a unique multi-disciplinary study dealing with the integration of mechanical devices, actuators, sensors, electronics, intelligent controllers and computers. Many new generations of consumer or commercial products can be classified as mechatronic products as they involve mechanical as well as electronic components. The need for mechatronic education has grown due to the increase in the number and importance of such systems and devices.



### Programme Objectives

- To prepare students to excel in Mechatronics Technology profession.
- To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve industrial and societal problems.
- To apply their consciousness of moral, professional responsibilities and motivation to practice life-long learning in a team work environment.
- To acquire ability to create mathematical model, design, analysis and synthesis the system integration based on the knowledge of mechanical, electrical, electronic, control, computer, communication, fluid and other engineering domains.
- To enable graduates to use their talent, self-confidence, knowledge and engineering practice to facilitate them to pursue position of scientific and/or managerial leadership in their career paths.
- To enable graduates to become entrepreneurs in Mechatronics Field.

### Programme Learning Outcomes

At the end of this programme the students will be able to-

- Excel in the field of Mechatronics Technology.
- Demonstrate the effective use of actuators and its elements for the generation, control and conversion of energy for the typical automation
- Develop the mechatronic systems by the integration of mechanical, electrical, electronics, fluid, and other multidisciplinary systems.
- Will become familiar with modern automation tools and such as incorporating robots and vision-based intelligence automation.
- Identify, formulate and solve engineering problems related to mechatronic systems.
- Manage any organization well and will be able to emerge as a successful entrepreneur.

### Eligibility for Admission

The eligibility for admission to Bachelor in Mechatronics Technology is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*The profession of mechatronics includes Technicians and Engineers who design and maintain automated equipment, Technicians and Engineers working in Laboratories, Offices or on-site Manufacturing Plants*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	MT 1.1	Engineering Graphics	2
	MT 1.2	Basic Electrical and Electronics Engineering	2
	MT 1.3	Manufacturing Technology	2
	MT ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	MT 2.1	Electronics and Instrumentation	2
	MT 2.2	CNC Machines and Programming	2
	MT 2.3	Engineering Metrology and Measurements	2
	MT ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	MT 3.1	Smart Manufacturing and Artificial Intelligence	2
	MT 3.2	Fundamentals of Mechatronics System	2
	MT 3.3	Total Quality Management	2

	MT ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	MT 4.1	Digital Electronics	2
	MT 4.2	Electrical Machines and Drives	2
	MT 4.3	Manufacturing Automation	2
	MT ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	MT 5.1	Microprocessors and Applications	2
	MT 5.2	Design of Mechatronics System	2
	MT 5.3	Micro Electro Mechanical Systems	2
	MT ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	MT 6.1	Robotics and Machine Vision System	2
	MT 6.2	Micro Controller and PLC	2
	MT 6.3	Industry 4.0	2
	MT ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Mechatronics Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Diamond Tools And Electrical, Everrise Ac Pvt Ltd, Espirit Trucking
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN PRODUCTION TECHNOLOGY

### Programme Introduction

Bachelor in Production Technology is a unique 3-year degree programme designed to meet current industrial requirements with an emphasis on new manufacturing technologies and industrial practices. Production Technology is a ground-breaking initiative to play a constructive role and fill the gap by developing a dynamic eco-system for quality training and skills growth for the capital goods market.



### Programme Objectives

- To prepare students to excel in Production Technology profession.
- To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve industrial and societal problems.
- To train students with good scientific and engineering knowledge so as to comprehend, analyze, design and develop innovative products and provide solutions for the real-life problems.
- To enable graduates to use their talent, self-confidence, knowledge and engineering practice which facilitate them to presume position of scientific and/or managerial leadership in their career paths.
- To enable graduates to apply their consciousness of moral, professional responsibilities and motivation to practice life-long learning in a team work environment.
- To enable graduates to become entrepreneurs in Manufacturing Engineering sector.

### Programme Learning Outcomes

At the end of this programme the students will be able to-

- Excel in the field of Production Technology.
- Lay solid foundation in engineering fundamentals that are required to solve industrial and societal problems.
- Acquire engineering knowledge to analyze, design and develop innovative products and provide solutions for the real-life problems.
- Design and develop innovative and environment friendly products useful to the nation and the society.
- Motivate to practice life-long learning in a team work environment.
- Graduates to become entrepreneurs in Manufacturing Engineering sector.

### Eligibility for Admission

The eligibility for admission to Bachelor in Production Technology is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Students get job at Mechanical Plants, Fabricating Plants, Vehicle Assembling Plants or firms where creation procedure is included.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	PT 1.1	Engineering Graphics	2
	PT 1.2	Production Technology	2
	PT 1.3	Engineering Metrology	2
	PT ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	PT 2.1	Theory of Metal Cutting	2
	PT 2.2	Basic Electrical and Electronics Engineering	2
	PT 2.3	Metal Joining Technology	2
	PT ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	PT 3.1	Smart Manufacturing and Artificial Intelligence	2
	PT 3.2	Material Science and Metallurgy	2
	PT 3.3	CNC Machines and Programming	2
	PT ST3	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	PT 4.1	CAD/CAM	2
	PT 4.2	Industrial Engineering and Management	2
	PT 4.3	Fundamentals of Mechatronics System	2
	PT ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	PT 5.1	Production Planning and Control	2
	PT 5.2	Applied Hydraulics and Pneumatics	2
	PT 5.3	Non-Destructive Evaluation and Testing	2
	PT ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	PT 6.1	Total Quality Management	2
	PT 6.2	Manufacturing Automation	2
	PT 6.3	Project Work	2
	PT ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor in Production technology
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Valeo India P. Ltd, Veer-O-Metals, Titan.
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# CHILD CARE SECTOR

## Introduction of the Sector

Child care is a broad area that covers a wide spectrum of professionals, institutions, contexts, activities, social, and cultural conventions. The child care sector plays a crucial role in nurturing early childhood development by providing a stable environment that is sensitive to a child's health and nutritional needs with protection from threats, opportunities for early learning, and interactions that are responsive, emotionally supportive and developmentally stimulating. This nurturing care is essential for laying the foundations for a child's survival and thriving throughout their life. The sector covers two components - early child development and child protection.



## BACHELOR IN EARLY CHILD DEVELOPMENT

### Programme Introduction

There is an acute shortage of professionally trained personnel to provide comprehensive services to children in difficult circumstances. There is a large number of personnel working in existing institutions, whether run by government or by non-governmental organizations, who need to be provided with adequate skills and hands-on experiences for dealing with children in an effective manner and providing them quality services.



The cadre prepared through this programme will contribute to the Ministry of Women and Child Development's plans to holistically examine methods of rationalizing programmes and approaches for creating a strong protective environment for children, diversify and provide essential services for children, mobilize inter-sectoral response for strengthening child protection and set standards for care and services.

The importance of early care and education for children's lifelong learning has been widely established and acknowledged. The early childhood period, spanning from pre-natal to 8 years, is the most critical and sensitive period in the life span of an individual as it coincides with phenomenal brain development. Children's exposure to quality experience in the early years of life is critical to their development and learning outcomes.

### Programme Objectives

- Understand Current Perspective and Key highlights of the NEP focusing on Early Childhood Care & Education with new Curricular and Pedagogical Structure
- Building a cadre of Foundation Stage Educators (Preschool to grade 2) having clear concept and knowledge as well as Skills for foundation learning
- Knowing and building skills for upward curricular continuity and learning outcomes from pre primary to primary that would provide sound and strong foundation for formal education
- Developing skills and knowledge to plan and execute action research
- Provide competencies and build capacity to understand approaches and strategies about appropriate, developmental assessment of children, teachers and programmes
- Know about stakeholders and providing appropriate interventions leading to maximum development of children

### Programme Learning Outcomes

At the end of this programme the students will-

- Acquire basic knowledge, skills and training to become a foundation stage Professionals/Educators.
- Enhance knowledge of child development theories preparing developmentally appropriate child centered curriculum sensitive to diverse contextual needs.
- Inculcate essential supervisory, administrative, management and leadership competencies for effective functioning in various settings such as ECCE centres, Day care centres, Anganwadi, Early primary level and similar programmes.
- Develop skills and competencies in designing of learning environments and teaching learning resources for foundation stage education.
- Develop understanding, and knowledge of assessment of children, teachers and programmes
- Understand ECD principles effective guidance practices for parents, teachers and communities through training workshops and context appropriate intervention
- Be able to plan, execute, monitor and evaluate action research projects.

### Eligibility for Admission

The eligibility for admission to Bachelor in Early Child Development is 10+2 or equivalent, in any stream.

### Career Prospects

*Students can be employed at government sector, private sector, NGOs, Integrated Child Development Services (ICDS) projects, etc. They can become Aganwadi workers, Baal Wadi Teachers, Pre-school Teachers, Pre Primary Asst. Teachers (Diploma), Teachers (Degree) or Supervisor for ICDS projects (Degree) and Coordinator at NGO. They can also establish Day Care Centres (Government and Private government organizations).*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	ECD 1.1	Introduction to Child Growth and Development	2
	ECD 1.2	Curriculum and its implementation for foundation stage - I	2
	ECD 1.3	Child Rights and Inclusion in Early Child Education	2
	ECD ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	ECD 2.1	Child Development and its Assessment	2
	ECD 2.2	Curriculum and its Implementation for Foundation Stage - II	2
	ECD 2.3	ECD Centre Management and Community Participation I	2
	ECD ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	ECD 3.1	Learning and Cognition	2
	ECD 3.2	Personal and professional development in ECD	2
	ECD 3.3	Developmentally Appropriate	2

		Pedagogical Skills and Practices - I	
	ECD ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	ECD 4.1	Child Development and Children with Special Needs	2
	ECD 4.2	ECD Centre Management and Community Participation - II	2
	ECD 4.3	Developmentally Appropriate Pedagogical Skills and Practices - II	2
	ECD ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
V	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	ECD 5.1	Theories of Child Development and Pedagogical Skills	2
	ECD 5.2	Leadership and Inclusive Education	2
	ECD 5.3	Action Research and Easing the Transition	2
	ECD ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
VI	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	ECD 6.1	Professional Leadership	2
	ECD 6.2	Early Years Programme Assessment and Action Research	2
	ECD 6.3	ECD Government Policies and The Global Perspective	2
	ECD ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 30,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor in Early Child Development
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Credit Load</b>	132 credits
<b>(d)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(e)</b>	<b>Certificates Awarded &amp; NSQF/NCrf Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrf Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrf Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrf Level 5.5</li> </ul>

## BACHELOR IN CHILD PROTECTION

### Programme Introduction

'Children' and 'childhood' are perceived differently in various cultures and periods of time. This leads to power dynamics in relationships between an adult and a child. At each stage of growth, a child has different needs for which he/she may be dependent on adults. However, in many cases, these needs are not met due to a range of factors like rural-urban and class- caste divides, poverty and income insecurity, socio-economic and geo- political circumstances, or discriminatory attitude leading to deprivation or abuse. This necessitates an understanding of child vulnerability and child protection.



Violence, abuse, and exploitation of children are widespread and remain a harsh reality for millions of children from all socio-economic groups in India. These have long-lasting consequences on children's lives. Child Protection requires working with families and community resources to ensure children are safe through sensitive child-friendly initiatives to effectively deliver services, mobilize an inter-sectoral response and engage in designing, implementing as well as strengthening Child Protection Systems in India.

### Programme Objectives

- Develop basic understanding of engineering and automotive industry, along with required soft skills
- Acquire the basics of manufacturing technology and engineering mechanics with additional personality development skills
- Acquire advanced techniques in manufacturing technology & basic administrative skills
- Develop an overview of manufacturing processes, practices and quality management
- Acquire knowledge in production technology and understand basics of automotive market dynamics
- Learn latest automotive technologies with emphasis on employment opportunities

### **Programme Learning Outcomes**

At the end of this programme the students shall be able to –

- Learn automotive engineering as a course and focus on personal grooming
- Adapt auto-manufacturing as a technology and apply mechanical aspects in real life
- Apply basic principles to the modern technology with digitalization in the forefront and also educate self in administrative tools
- Perform in manufacturing processes and display capability to work on an actual shop floor of a professional company
- Move at production level while understanding that personal health and economics go hand-in-hand with any profession
- Gain mastery by gaining knowledge on productive maintenance and quality management and also display capabilities in starting an entrepreneurial venture.

### **Eligibility for Admission**

The eligibility for admission to Bachelor in Child Protection is 10+2 or equivalent, in any stream.

### **Career Prospects/Job Role**

*Students can work as Social Workers, Programme Specialists, Child Protective Specialists, Family Case Managers, Social Service Assistants, School Counselors, and Behavioral Counselors in government settings, institutions under DCPUs (District Child Protection Units) of ICPS (Integrated Child Protection Schemes), etc.*

SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	CP 1.1	Understanding Child and Childhood	2
	CP 1.2	An Introduction to Child Rights and Legal Provisions for Children	2
	CP 1.3	Basic Skills for Working with Children	2
	CP ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	CP 2.1	Child Protection	2
	CP 2.2	Child Protection Mechanisms in India: State's Response	2
	CP 2.3	Working with Individuals, Groups and Communities - Basic	2
	CP ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	CP 3.1	Approaches and Interventions for Child Protection	2
	CP 3.2	Welfare Policies and Schemes for Children in India	2
	CP 3.3	Working with Children, Families and Other Stakeholders	2
	CP ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	CP 4.1	Important Laws and Legislations for Children in India: An In-depth View	2

	CP 4.2	Dealing with Personal and Professional Challenges of a Child Protection Practitioner	2
	CP 4.3	Working with Individuals, Groups and Communities - Advanced	2
	CP ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	CP 5.1	Vulnerability Assessment and Interventions with Vulnerable Categories of Children	2
	CP 5.2	Analysis of Legislations from a Child Rights Perspective and an Introduction to Child Budgeting	2
	CP 5.3	Life Skills Education and Arts Based Work with Children	2
	CP ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	CP 6.1	Project Management	2
	CP 6.2	Social Action on Child Protection	2
	CP 6.3	Skills of a Child Protection Practitioner	2
	CP ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 30,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Child Protection
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	132 credits
(d)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(e)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# EDUCATION SECTOR

## Introduction of the Sector

The social research and data management sector is crucial for understanding and addressing societal issues. It involves designing and conducting studies, analyzing data, and providing insights that inform policy, shape public opinion, and drive social change. Professionals in this field work in diverse settings, including academia, government, non-profits, and market research firms. Their work uncovers trends, evaluates programs, and offers evidence-based solutions to social challenges. As reliance on data-driven insights grows, the demand for skilled social researchers and data analysts increases, making this a vital and dynamic field with significant career opportunities.

## BACHELOR IN APPLIED SOCIAL RESEARCH

### Programme Introduction

The Bachelor in Applied Social Research programme is designed for individuals with no or minimal technical experience as this programme is a blend of engaging and interactive learning experiences with theoretical knowledge and real-world applications, fostering a holistic understanding of social research. This programme introduces students to the philosophy, significance, and processes involved in social research, emphasizing the technical aspects of research and data management. By the end of the programme, students will understand the importance of social research and will be equipped with the skills to manage and analyze research data effectively.



### Eligibility for Admission

Candidates who have completed 10+2 or equivalent in any stream are eligible for admission.

### Career Prospects/Job Roles

*Graduates of this programme can pursue careers as research scientists. These professionals design and analyze information collected from laboratory investigations and experiments. Research scientists can work in various settings, including government labs, environmental organizations, and research institutions.*

**SEMESTER-WISE LISTING OF COURSES**

<b>SEMESTER</b>	<b>SUBJECT CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	SR 1.1	Foundations of Social Research	2
	SR 1.2	Introduction to Research Methods	2
	SR 1.3	Introduction to Excel	2
	SR ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	SR 2.1	Research Design	2
	SR 2.2	Descriptive Statistics for Social Research	2
	SR 2.3	Formulation of Research Instrument	2
	SR ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	SR 3.1	Introduction to Micro Data sets	2
	SR 3.2	Introductions to Tools for Data Analysis: SPSS and JASP	2
	SR 3.3	Data visualization using Tableau and Power BI	2
	SR ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2

	SR 4.1	Analysis of Time Series, Cross-Sectional, Panel, and Relational Data	2
	SR 4.2	Demography Analytics	2
	SR 4.3	Inferential Statistics	2
	SR ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	SR 5.1	Dissertation Phase I	2
	SR 5.2	Predictive Statistics	2
	SR 5.3a	Health Analytics (Elective 1)	2
	SR 5.3b	Environment and Social Impact Assessment (Elective 2)	2
	SR ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	SR 6.1	Dissertation Phase II	2
	SR 6.2	Research Ethics	2
	SR 6.3a	Market Research (Elective 1)	2
	SR 6.3b	Sustainable Development Analytics (Elective 2)	2
	SR ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 60,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

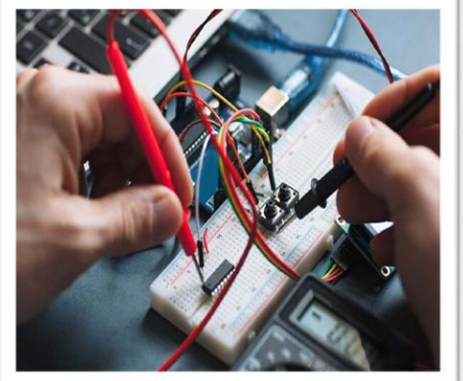
### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Applied Social Research
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Maharashtra Prathamik Shikshan Parishad, Renovate India
(d)	<b>Credit Load</b>	136 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which BoS Approved</b>	B.Voc. in Social Research and Data Management: 7 <sup>th</sup> June 2021 Nomenclature changed -2 <sup>nd</sup> BoS on 3 <sup>rd</sup> Nov. 2022 [B.Voc. in Data Management and Social Research (B. Voc. in Social Research)] Revision & Nomenclature changed- 2 <sup>nd</sup> May, 2025
(g)	<b>Date on which AC Approved</b>	9 <sup>th</sup> June 2021 Revision & Nomenclature changed-14 <sup>th</sup> May, 2025
(h)	<b>Certificates Awarded &amp; NSQF/NCrf Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrf Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrf Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrf Level 5.5</li> </ul>

# ELECTRONICS SECTOR

## Introduction of the Sector

The Indian electronics industry is one of the largest and fastest growing industries in the world. Electronics manufacturing industry in India is growing at a much faster pace due to the ever - growing demand for consumer electronics, IT and telecom goods. India is an attractive hub for foreign investments in the manufacturing sector as well. Several mobile phones, luxury and automobile brands, among others, have set up or are looking to establish their manufacturing bases in the country. Here rises the demand for skilled professional Electronics Manufacturing Service providers.



## BACHELOR IN ELECTRONIC MANUFACTURING SERVICES

### Programme Introduction

Bachelor in Electronic Manufacturing Services is specifically designed for students to gain skills and knowledge of Electronic Manufacturing so that they can relate themselves to the expected surge in Electronic Manufacturing industry.

### Programme Objectives

- Operate machine on manufacturing lines to produce the electronics items
- Assemble all the parts of electronics items
- Design electronics items with the latest technology
- Analyze and perform good manufacturing practices
- Analyse the concepts, principles of working of basic electronic devices and circuits
- Analyze and perform the testing procedure of components and circuits by making use of different test instruments
- Locating the fault at component level and at the stage level
- Analyze and perform store and quality management processes

### Programme Learning Outcomes

- Understand the concepts of Basics of Electricity, Electronics components, Cells and batteries testing, measuring, charging and discharging
- Identification of components, tools and their uses
- Understand the concepts of cables and connectors, ESD clothing and PPE, Factory Rules and Clean Room Environment
- Understand the concept of SMD Components, perform Soldering and Desoldering of SMD and basic components and emergency actions

- Categorize and identify different types of faults in a product/component and their repair technique.
- Illustrate the procedures to be followed for safe working environment around assembly line
- Assess the areas for improvement & identify ways to increase productivity and reduce the rework/waste material
- Demonstrate processes related to Shelf Life Management and Material Transactions

### Eligibility for Admission

The eligibility for admission to Bachelor in Electronics Manufacturing Services is 10+2 or equivalent, in any stream

### Career Prospects/Job Roles

The job prospects after completion of the course of Bachelor in Electronic Manufacturing Services, are Line Supervisor, Production Supervisor, Quality Engineer, Product Quality Control Engineer, Incoming Quality Control Engineer Material Controller and Material Controller.

### SEMESTER-WISE LISTING OF COURSE

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	EMS 1.1	Fundamentals of Electrical Power Supply	2
	EMS 1.2	Identification of components, tools, SOP and Work instructions	2
	EMS 1.3	Tools, Equipment and Safety Measures	2
	EMS ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	EMS 2.1	Fundamentals of Electronics	4
	EMS 2.2	Soldering and De-soldering of Components and Emergency Actions	2
	EMS ST2	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	EMS 3.1	Fault Analysis and Repairs	4
	EMS 3.2	Good Manufacturing Concept and Practices - I	2
	EMS ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	EMS 4.1	Good Manufacturing Concepts Practices - II	2
	EMS 4.2	Manufacturing and Quality Norms	2
	EMS 4.3	Good Manufacturing Concepts and Practices - III	2
	EMS ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	EMS 5.1	Valuation and Storage	2
	EMS 5.2	Shelf Life, Warehouse Operations Management and Material Transactions	4
	EMS ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	EMS 6.1	Pre-Production Activities	2
	EMS 6.2	5S and Supervision	4
	EMS ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 33,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Electronic Manufacturing Services
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Schneider Electric India Pvt. Ltd, LAVA International, Hogar Technologies & Innovations LLP
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN OFFICE AUTOMATION

### Programme Introduction

Students will acquire technical skill for developing embedded based Industrial Automation and Electronic Circuit Development. They will develop strong technical knowledge for establishing instrumentation-based automation system in various industries.



### Programme Objectives

- Communicate professionally with employers, customers, and colleagues using industry standard language and following industry standard protocols
- Install Computing, Networking, Security systems and Communications devices
- Demonstrate and Troubleshoot Computing, Networking, Security systems and Communications devices
- Learn about new age automation technologies
- Locating the fault at component level
- Analyse and perform correct usage of tools and equipment

### Programme Learning Outcomes

- Understand the concepts of Basics of Electricity, Electronics components, and Basic Physics
- Identification of components, tools and their uses
- Understand the fundamentals of automation devices such as Biometrics, Security Camera with Backup Storage, RFID Tags, IRIS Scanner, Fire Alarm, Burglar Alarm and Electronics Locks and Safes
- Installation, Demonstration and Troubleshooting of devices such as Biometric Machines, Security
- Camera with Backup Storage and RFID Tags, IRIS Scanner, Fire Alarm, Burglar Alarm and Electronics Locks and Safes
- Installation, Demonstration and Troubleshooting of devices such as Printer/Scanner/Photocopier, Projector and Video Conferencing Equipment, Audio System, Sensor based Lighting and Automatic Doors
- Understand the concepts related to computer hardware & software, networking and installation of its connecting peripheral devices and their repair/ troubleshooting
- Understand new age technologies concepts of 3D printing and its application
- Illustrate the procedures to be followed for safe working environment

### Eligibility for Admission

The eligibility for admission to Bachelor in Office Automation is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

After successfully completing the course students can acquire job in Soldering, Calibration, Instrumentation, Piping, PLC, Virtual Instrumentation as Embedded Technician / Supervisor / Manager/Engineer. They can work as Administrative Assistant, Computer Operator, Desktop Support Engineer, Field Support Engineer (IT), Network Engineer, IT Admin.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	OA 1.1	Fundamentals of Electricity and Electronics	2
	OA 1.2	Introduction to Biometric Machines, Security Camera with Backup Storage and RFID Tags	2
	OA 1.3	Introduction to IRIS Scanner, Fire Alarm, Burglar Alarm and Electronic Locks and Safes	2
	OA ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	OA 2.1	Introduction to Printer, Scanner, Photocopier, LED/ LCD Projector and Video Conferencing Equipment	4
	OA 2.2	Introduction to Audio System, Sensor Based Lighting and Automatic Doors	2
	OA ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	OA 3.1	Computer and its Peripherals	2

	OA 3.2	Installation of PC, Peripheral Devices, OS, Drivers and Basic Software	2
	OA 3.3	Maintenance and Troubleshooting of Peripheral Devices	2
	OA ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	OA 4.1	Introduction to Mobile	4
	OA 4.2	Introduction to 3D Printing and Solid State Inverters	2
	OA ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	OA 5.1	Basics of Network and Devices	4
	OA 5.2	Installation of Networking Devices	2
	OA ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	OA 6.1	Maintenance and Troubleshooting of Networking Devices	4
	OA 6.2	Brief Overview of MS Office	2
	OA ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 36,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Office Automation
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Ashida Electronics, Care Infotech, Technoskills
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN REFRIGERATION AND AIR CONDITIONING

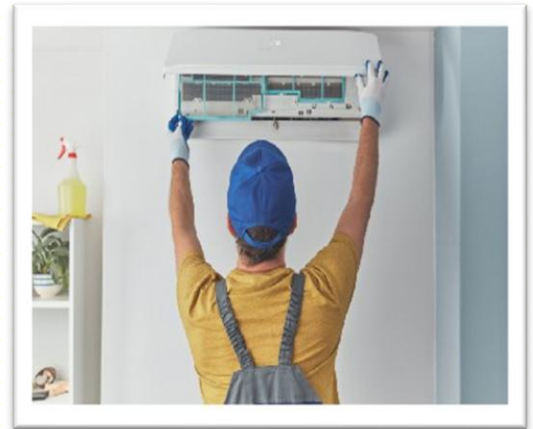
### Programme Introduction

Bachelor in Refrigeration and Air Conditioning Technology programme provides a broad introduction to air conditioning and refrigeration systems, including everyday operation and important refrigerant safety practices. The course is a great overview for maintenance technicians, multi-craft tradespeople, building managers, HVAC technicians or anyone seeking to improve their RAC operation and maintenance skills.

Students are taught common practices and some

tricks-of-the-trade for general operation and maintenance of their RAC systems. They will learn about maintenance schedules and servicing, system diagnostics, troubleshooting and fine-tuning to gain maximum efficiency.

The course also covers an introduction to commercial and industrial chillers, regulatory laws and energy conservation.



### Programme Objectives

- Perform heating and air conditioning system inspection, maintenance, adjustment, and repair with limited supervision.
- Perform cooling system maintenance, diagnosis, and repairs as related to heating and air conditioning with limited supervision.
- Communicate professionally with employers, customers, and colleagues using industry standard language and following industry standard protocols.
- Access and utilize repair information in a rapidly changing technology.
- Develop and implement strategies and processes to solve heating and air conditioning repair problems.
- Perform heating and air conditioning repair to professional and ethical standards.

### Programme Learning Outcomes

- Understand the Fundamentals of Electricity/Electronics and Basic
- Identification of components, tools and their uses
- Understand the basics of Domestic Refrigerators/ AC, Commercial Refrigerators /AC and Modern technologies
- Understand and illustrate the process of installation of different refrigerators/ ACs, check point of Installation, Dismantling, Preventive Maintenance Services
- Illustrate the Safety guidelines and procedures to be followed for safe working environment in RAC domain

- Understand Diagnosis and Repairing of Refrigerators and Air Conditioners
- Understand commercial applications of air conditioners like Package Air Conditioners, VRF System and Central Air Conditioning Plant
- Understand Commercial Applications of Refrigerators
- Illustrate good communication skills

### Eligibility for Admission

The eligibility for admission to Bachelor in Refrigeration and Air Conditioning Technology is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Bachelor in Refrigeration and Air Conditioning Technology industry is on a fast-track growth trajectory, provides very dynamic and exciting careers with many different job opportunities such as RAC Field Engineer, RAC Mechanical Designers, RAC Installers Sales and Marketing representative, HVAC Operator and HVAC Engineer.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	RAC 1.1	Fundamentals of Electricity and Electronics	2
	RAC 1.2	Introduction to Refrigerators A. Domestic Applications B. Commercial Applications Modern Technologies and Developments	2
	RAC 1.3	Installation and Maintenance/Service, Emergency actions and First- Aid/Safety (Refrigerator)	2
	RAC ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	RAC 2.1	Introduction to Air Conditioners and Comfort Cooling:	4

		A. Domestic Applications B. Commercial Applications Modern Technologies and Developments	
	RAC 2.2	Safety Precautions, Installation and Maintenance/ Servicing	2
	RAC ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	RAC 3.1	New Technologies and Diagnosis and Repairing of Refrigerators	4
	RAC 3.2	New technologies and Developments in Air Conditioners	2
	RAC ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	RAC 4.1	Diagnosis and Repairing of Air Conditioners	2
	RAC 4.2	Basic Components of Commercial Refrigeration System	4
	RAC ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	RAC 5.1	Commercial Applications of Refrigerators	2
	RAC 5.2	Commercial Applications of Air Conditioners - I	4
	RAC ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2

	RAC 6.1	Commercial Applications of Air Conditioners – II	2
	RAC 6.2	Commercial Air Conditioner Controls & Operating	4
	RAC ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: (Rs. 36,000/-per annum)**

**Examination Fees: (Rs. 1,600/- per semester and Rs. 3200/- per annum)**

**Caution Deposit (Refundable): Rs. 5000/-**

**Certification Charges: Rs. 2500/-**

#### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Refrigeration and Air Conditioning
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partner for Skill Training/Industry Partner</b>	Chill and Cool
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# HEALTHCARE SECTOR

## Introduction of the Sector

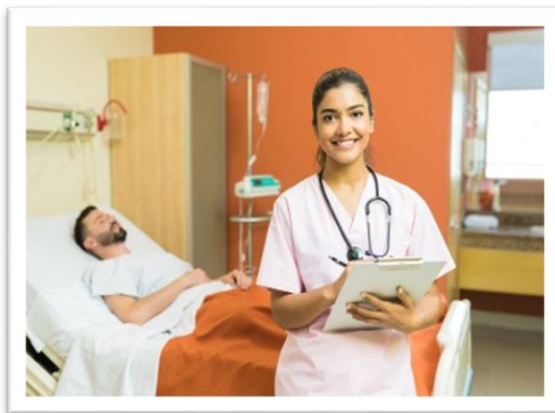
Healthcare comprising of hospitals, medical devices, clinical trials, outsourcing, telemedicine, medical tourism, health insurance and medical equipment has become one of India's largest sectors – both in terms of revenue and employment. With increased awareness about health, domestic healthcare, medical tourism and health insurance markets are gaining momentum, offering opportunities for trained personnel.



## BSC IN PATIENT CARE MANAGEMENT WITH SPECIALIZATION IN PALLIATIVE CARE AND GERIATRIC CARE

### Programme Introduction

A graduate of BSc in Patient Care Management with Specialization in Palliative Care and Geriatric Care is an all-rounder as far as critical care is concerned. The course envisages to build an overall expertise in the students, of managing patients with care, whether it is an in-patient or someone in the OPD. Apart from general patient care the students will specialize in geriatric care and palliative care. They would be capable of offering a range of services like cardiac care or care of cancer patients. The focus of the course will be on geriatric care and palliative care. Data from National Family Health Survey (NFHS) and census shows that life span has increased in general. Hence, provisions for care and support for older population need to have more thrust in the development initiatives.



This includes integrating healthcare components required for older population and developing multi-level interdisciplinary professionals to provide quality care and support to them. In addition to geriatric care, palliative care also is a need of the time. It has been estimated that in India, the total number of people who need palliative care is likely to be 5.4 million people a year. Palliative care is explicitly recognized under the human right to health. The goal of palliative care is to improve quality of life. It is required for a wide range of diseases like cardiovascular diseases, cancer, chronic respiratory diseases, AIDS, diabetes and so on.

Palliative care treats a wide range of issues that can include pain, depression, anxiety, fatigue, shortness of breath, constipation, nausea, loss of appetite and difficulty in sleeping.

The need for such professionals has been expressed not only by the healthcare sector employers, but also by the patients. This course will enable students to deliver quality care in all three areas i.e., patient care, geriatric care and palliative care. Students may get job opportunities as nursing assistants in private hospitals, in the home care setting as well as in various developed countries where the life span has increased.

The course thus, aims to fill the gap between the demand for these professionals and dearth of their availability. That apart, the course creates the grounds for enhancing vertical growth opportunities for the Patient Care Management graduate.

The complexity of skill development increases with each level, in correspondence with the standards set by the National Skills Qualification Framework. Thus, each activity would be having an increasing number of tasks every progressive year.

### **Programme Objectives**

- Perform tests to detect various physiological functions of the eye
- Diagnose diseases of the eyes
- Handle optometric instruments
- Perform Vision tests
- Treat problems related to the eyes
- Dispense lenses and glasses
- Store records and convey reports to the patients
- Supervise technicians during tests

### **Programme Learning Outcomes**

- Identify and explain basic optometric instruments
- Assist and guide patients before, during and after the conduction of tests
- Monitor, reduce and manage clinical risks and implement patient safety priorities
- Perform analysis of eye conditions
- Undertake necessary precaution to avoid occupational safety and health risks
- Comprehend and implement Good Optometry Practices and the Standard Operating Procedures (SOP)

- Follow appropriate bio medical and infectious waste disposal protocols
- Perform all kind of optometry tests
- Work with different imaging systems related to optometry
- Interpret test results and convey the same to the patients
- Supervise or manage an optometry department
- Train and guide subordinates in various roles and responsibilities of an optometry technician
- Demonstrate and guide others in correct disposal of biomedical and infectious wastes
- Communicate properly with colleagues, juniors and patients

### Eligibility for Admission

The eligibility for admission to BSc in Patient Care Management with Specialization in Palliative Care and Geriatric Care is 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

*After completing BSc in Patient Care Management with Specialization in Palliative Care and Geriatric Care, the students will be able to find jobs at Hospitals (In patient, palliative care OPD) Hospice, Rehabilitation centers, Home care, settings and Nursing Homes.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	PCM 1.1	Foundations of Patient Care - I	2
	PCM 1.2	Introduction to the Human Body	2
	PCM 1.3	Meeting Basic Needs of the Patient	2
	PCM 1.4	Methods of Prevention and Control of Infection in the Hospital	2
	PCM ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2

	PCM 2.1	Foundations of Patient Care - II	2
	PCM 2.2	Introduction to Pharmacology and Drug Administration	2
	PCM 2.3	First Aid	2
	PCM 2.4	Introduction to Palliative and Geriatric Care	2
	PCM ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	PCM 3.1	Documentation and Store Keeping	2
	PCM 3.2	Common Conditions and Symptom Management in Palliative and Geriatric clients	2
	PCM 3.3	Therapeutic Patient Care - I and Pre and Post- Operative Care, Including Wound Care	2
	PCM ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Health and Wellness	2
	PCM 4.1	Family Health Care	2
	PCM 4.2	Pain Management and End of Life Care	2
	PCM 4.3	Therapeutic Patient Care - II	2
	PCM 4.4	Home Based Palliative and Geriatric Care	2
	PCM ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	PCM 5.1	Advanced Patient Care - Respiratory and Cardiac Care	2
	PCM 5.2	Advanced Patient Care - Gastrointestinal and Urinary Tract Disorders	2

	PCM 5.3	Meeting the Needs of Special Patients - (Maternal and Child Healthcare)	2
	PCM 5.4	Emergencies in Palliative and Geriatric care and Rehabilitation	2
	PCM ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	PCM 6.1	Advanced Patient Care: Important Neurological Disorders and Miscellaneous Conditions	2
	PCM 6.2	Advanced Patient Care - Care of the Patient with Communicable Diseases and Disorders of Eye, Ear, Nose and Throat	2
	PCM 6.3	Mental health Care; Interpersonal Relationship, Therapeutic Communication, Patient and Family Education and Counselling	2
	PCM 6.4	Psychosocial Legal and Ethical Aspects of Palliative and Geriatric Care	2
	PCM ST 6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 48,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

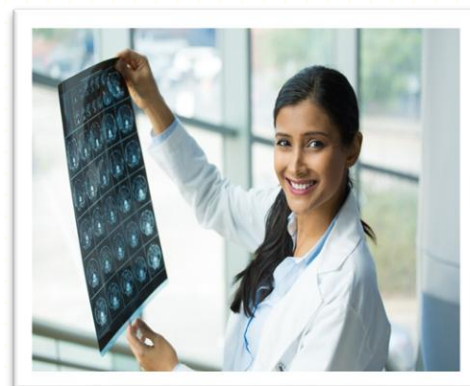
### Programme Summary

(a)	<b>Name of the Programme</b>	BSc in Patient Care Management with specialization in Palliative care and Geriatric care
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	142 credits
(d)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(e)	<b>Date on which BoS Approved</b>	7 <sup>th</sup> June 2021
(f)	<b>Date on which AC Approved</b>	9 <sup>th</sup> June 2021
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

### BSC IN MEDICAL IMAGING TECHNOLOGY

#### Programme Introduction

BSc in Medical Imaging Technology is an undergraduate Medical Lab Technologist course. Medical Imaging is the technique and process of creating visual representations of the Interior of Human Body (i.e., Anatomy) as well as visual representation of the function of some organs or tissues (i.e., Physiology) used for Clinical Analysis and Diagnosis of Medical Intervention.



#### Programme Objectives

- Perform Positional Radiography of various body parts
- Perform imaging of various parts and systems of the body
- Analyze patient positioning, preparation, techniques, general care during X-ray scans.
- Analyze patient positioning, preparation, techniques, general care during CT, MRI and USG scans
- Perform patient preparation, patient positioning, and sequencing for various MRI Angiographies
- Interpret the factors, tools and techniques affecting the radiographic image quality.
- Dispatch reports to the patient and to other departments
- Record keeping and basic equipment maintenance
- To maintain patient confidentiality
- To understand imaging equipment and its basic maintenance

### Programme Learning Outcomes

- Recognize the various methods of radiology and risk factors associated with them during the x-ray procedure.
- Perform Positional Radiography of various body parts.
- Analyze CT patient positioning, manipulate parameters associated with exposure and processing to produce a required image of desired quality.
- Operate MRI scan and perform patient positioning.
- Analyze patient positioning, preparation, techniques, general care during USG scans.
- Interpret the factors, tools and techniques affecting the radiographic image quality.
- Illustrate the general patient care in handling and preparation of patients during radiological examination.
- Analyze patient positioning and use correct protocol for various MRI Angiographies.
- Assess contraindications and indications, perform patient preparation and follow steps for recent advanced MRI techniques.
- Illustrate designing an imaging department or nuclear medicine department.
- Supervise or manage a radiological department.
- To understand imaging equipment and its basic maintenance - Train and guide subordinates in various roles and responsibilities of a radiographer.
- Demonstrate and guide others in correct disposal of radioactive waste and various other types of hospital waste.
- Demonstrate or supervise various methods of Sterilisation and preparation for aseptic procedures.

### Eligibility for Admission

The eligibility for admission to BSc in Medical Imaging Technology is 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

*After completing BSc in Medical Imaging Technology course the students will be able to find jobs in establishments such as Diagnostic Centres, Medical Offices, Educational and Research Institutes, Healthcare Management or Administration, Hospitals and Radiology Clinics.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	MIT 1.1	Anatomy and Physiology	2
	MIT 1.2	Clinical Pathology	2
	MIT 1.3	Radiation Physics and Image Processing Techniques	2
	MITST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	MIT 2.1	Radiology: Equipment, Positioning Techniques and Procedures	2
	MIT 2.2	Radiological Procedures	2
	MIT 2.3	Radiology: Quality Control and Patient Care	2
	MITST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	MIT 3.1	Computed Tomography - I	2
	MIT 3.2	Computed Tomography - II	2
	MIT 3.3	Ultrasound Imaging	2
	MIT ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	MIT 4.1	Computed Tomography - III	2
	MIT 4.2	Mammography, Bone Densitometry and Orthopantomography	2

	MIT 4.3	MRI Physics, Systems and Components	2
	MIT ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	MIT 5.1	MRI - Physics and Angiography	2
	MIT 5.2	Protocols in MRI	2
	MIT 5.3	Recent advances in Radiology	2
	MIT ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	MIT 6.1	Effective Administration Skills	2
	MIT 6.2	Doppler Ultrasound and PET Scan	2
	MIT 6.3	Interventional Radiology and Radiation Therapy	2
	MIT ST 6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	BSc in Medical Imaging Technology
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Apollo Hospital, NMMC Hospital, St. George Hospital, Shihab Thangal Hospital, PMSA Tirur -Cooperative Hospital, Iqraa Hospital.
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BSC IN MEDICAL LABORATORY TECHNOLOGY

### Programme Introduction

A graduate of BSc in Medical Laboratory Technology is an all-rounder as far as technologies in a medical laboratory is concerned. The course envisages to build in an overall expertise in the students, of performing medical laboratory tests, whether it is routine or special tests. The students would be capable of performing a range of tests such as those related to phlebotomy, clinical biochemistry, haematology, serology, cytogenetics, etc. Besides, skills related to lab management and ethics, biomedical waste disposal, personality development, effective communication skills, attitude of health care workers etc. would also be developed in them.



The course creates the grounds for enhancing vertical growth opportunities for the Medical Laboratory Technician graduate.

The course aims to impart students with knowledge regarding Anatomy, so that they understand the investigative aspect adequately to equip themselves to perform laboratory procedures. It will not only help the students to perform investigative procedures more accurately but also help them to perform better in a Pathology Lab.

### Programme Objectives

- Draw blood for performing laboratory tests
- Properly handle various laboratory equipment and specimens
- Perform various laboratory tests
- Update patient records
- Practice safety and proper disposal of biomedical wastes
- Perform various hormonal tests

### Programme Learning Outcomes

- Identify and explain basic glass wares, instruments equipment's and classify solutions and reagents in a laboratory
- Assist and guide patients before, during and after the conduction of tests
- Select and draw blood from appropriate site using correct techniques
- Prepare, store, label and dispatch blood samples
- Undertake necessary precaution to avoid occupational safety and health risks

- Comprehend and implement Good Laboratory Practices and the Standard Operating Procedures (SOP)
- Follow appropriate bio medical and infectious waste disposal protocols
- Perform all kind of laboratory tests
- Work with different automated systems in a laboratory
- Lab technician should never disclose the lab results and should be done only by the pathologist or the doctor from the parent unit/ referred department.
- Supervise or manage a Medical Lab department
- Train and guide subordinates in various roles and responsibilities of a medical lab technician.
- Demonstrate and guide others in correct disposal of biomedical and infectious wastes
- Communicate properly with colleagues, juniors and patients

### Eligibility for Admission

The eligibility for admission to BSc in Medical Laboratory Technology is 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

Depending upon one's training and qualification, the BSc in Medical Laboratory Technology professionals may work as technologists or technicians at medical laboratories. The student may start off by working as a technician. Some of the common job profiles available in front of graduates include Lab Technician, Lab Technologist, Lab Supervisor and Lab Manager.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	MLT 1.1	Anatomy - I	2
	MLT 1.2	Physiology - I and Laboratory Basics - I	2
	MLT 1.3	Phlebotomy and Waste Management - I	2
	MLT ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2

<b>II</b>	MLT 2.1	Anatomy - II	2
	MLT 2.2	Physiology II and Clinical Biochemistry - I	2
	MLT 2.3	Haematology - I and Clinical Pathology - I	2
	MLT ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	MLT 3.1	Bacteriology and Clinical Biochemistry - II	2
	MLT 3.2	Laboratory basics - II and Waste management - II with Lab Ethics	3
	MLT 3.3	Histopathology, Cytology and Digital Pathology	3
	MLT ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	MLT 4.1	Clinical Pathology II (Part 1)	2
	MLT 4.2	Virology and Mycology	3
	MLT 4.3	Haematology and Blood Banking	3
	MLT 4.3	Haematology and Blood Banking	3
	MLT ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	MLT 5.1	Clinical Pathology II (part 2)	2
	MLT 5.2	Endocrinology I and Parasitology	2
	MLT 5.3	Molecular Biology I	3
	MLT ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2

MLT 6.1	Immunology - II and Endocrinology - II	4
MLT 6.2	Molecular Biology - II, Bio Banking (Cell Storing with Cytogenetics)	3
MLT 6.3	Toxicology, Quality Control/ Accreditation Procedures	2
MLT ST 6	Skill Training*	12
CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: (Rs. 54,000/-per annum)**

**Examination Fees: (Rs. 1,600/- per semester and Rs.3200/- per annum)**

**Caution Deposit (Refundable): Rs.5000/-**

**Certification Charges: Rs. 2500/-**

#### Programme Summary

(a)	<b>Name of the Programme</b>	BSc in Medical Laboratory Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Apollo Hospital, NMMC Hospital, St. George Hospital, Fortis Hospital Shihab Thangal Hospital, PMSA Tirur -Cooperative Hospital, Lourde Hospital, Iqraa Hospital,
(d)	<b>Credit Load</b>	140 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
(g)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(h)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR OF OPTOMETRY (B. OPTOM)

### Programme Introduction

B. Optom (Bachelor of Optometry) is a 4-year degree programme in the advanced study of the clinical skills involved in professionally measuring eyesight, prescribing corrective lenses and detecting eye diseases. In this course candidates specialize in the area of Sports Vision, Low Vision Aids, Contact Lens, Paediatric Optometry, Orthotics, Behavioural Optometry, etc. It is the primary health care provider for the treatment and management of the Refractive Disorders and Information Processing. It is career promising in nature and provide many job opportunities for the candidates after the successful completion.



### Programme Objectives

- Perform tests to detect various physiological functions of the eye
- Diagnose diseases of the eyes
- Handle optometric instruments
- Perform Vision tests
- Treat problems related to the eyes
- Dispense lenses and glasses
- Store records and convey reports to the patients
- Supervise technicians during tests

### Programme Learning Outcomes

- Identify and explain basic optometric instruments
- Assist and guide patients before, during and after the conduction of tests
- Monitor, reduce and manage clinical risks and implement patient safety priorities
- Perform analysis of eye conditions
- Undertake necessary precaution to avoid occupational safety and health risks
- Comprehend and implement Good Optometry Practices and the Standard Operating Procedures (SOP)
- Follow appropriate bio medical and infectious waste disposal protocols
- Perform all kind of optometry tests
- Work with different imaging systems related to optometry
- Interpret test results and convey the same to the patients

- Supervise or manage a optometry department
- Train and guide subordinates in various roles and responsibilities of an optometry technician.
- Demonstrate and guide others in correct disposal of biomedical and infectious wastes
- Communicate properly with colleagues, juniors and patients

### Eligibility for Admission

The eligibility for admission to B. Optom (Bachelor of Optometry) is 10+2 or equivalent, in preferably science stream.

### Career Prospects/Job Roles

*Successful graduates get employment across both private and government sectors, in areas such as Eye Clinics, Optician Showrooms, Contact Lens and Ophthalmic Lens Industry, In hospital OPD Settings of Ophthalmology Department, etc.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	OPT 1.1	Biochemistry and Nutrition	2
	OPT 1.2	General Anatomy	2
	OPT 1.3	General Physiology	2
	OPT 1.4	Physical Optics	2
	OPT ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	OPT 2.1	Quality and Patient Safety and Research Methodologies and Biostatistics	2
	OPT 2.2	Ocular Anatomy	2
	OPT 2.3	Ocular Physiology	2
	OPT 2.4	Geometrical Optics	2
	OPT ST 2	Skill Training*	12

	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	OPT 3.1	General and Ocular Pathology	2
	OPT 3.2	General and Ocular Microbiology	2
	OPT 3.3	Visual Optics	2
	OPT 3.4	Optometric Optics	2
	OPT ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	OPT 4.1	Ocular Disease I	2
	OPT 4.2	Optometric Instruments	2
	OPT 4.3	Clinical Examination of Visual Systems	2
	OPT 4.4	Public Health and Community Optometry and Introduction to medical psychology	2
	OPT ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
V	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	OPT 5.1	Ocular Disease II	2
	OPT 5.2	Systemic Diseases Affecting Eye, and Basic & Ocular Pharmacology	2
	OPT 5.3	Contact Lens	2
	OPT 5.4	Ophthalmic Operating Theatre Practice	2
	OPT ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
VI	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	OPT 6.1	Low Vision Care	2
	OPT 6.2	Dispensing Optics, Occupational Optometry	2

	OPT 6.3	Geriatric Optometry and Paediatric Optometry	2
	OPT 6.4	Binocular Vision	2
	OPT ST 6	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VII</b>	OPT CI	Clinical Internship	25
	OPT RP 1	Research Project 1	5
<b>VIII</b>	OPT CI	Clinical Internship	25
	OPT RP 2	Research Project 2	5

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	B. Optom (Bachelor in Optometry)
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Lenskart
<b>(d)</b>	<b>Credit Load</b>	204 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	4 Years / 8 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	Approval-16 <sup>th</sup> April 2019. Revision approved- 4 <sup>th</sup> BoS on 4 <sup>th</sup> May, 2023
<b>(g)</b>	<b>Date on which AC Approved</b>	Approval-16 <sup>th</sup> July, 2014. Revision approved- 9 <sup>th</sup> May, 2023
<b>(h)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BSC IN DIALYSIS TECHNOLOGY

### Programme Introduction

The 3-year undergraduate programme provides students with the opportunity to study the Principles of Dialysis, basic medical science of the kidney, fluid and electrolyte balance, hematologic aspects, infectious diseases, dialysis systems and equipment, vascular access to circulation, blood chemistry, complications of renal failure, psycho-social aspects and an overview of peritoneal dialysis and renal transplantation.



In short, students are trained to operate Dialysis Equipment, inspect and maintain it. Other than technical training, subjects like Human Anatomy and Physiology, Renal Diseases, other relevant diseases, Blood Chemistry, etc. are also covered in this course.

### Programme Objectives

- To improve capacity of local dialysis professionals (by imparting high quality education and training).
- To reduce incidence and complications of non-communicable diseases like chronic kidney disease by rehabilitating these patients with good quality of dialysis treatments.
- To understand disease condition and also train students to perform assessment of patient, interpreted vital parameters and prepare and test equipment used for dialysis.
- Educate the students to enhance their skill and knowledge to perform treatment for chronic kidney disease patients which is increasing in epidemic proportions across the country.
- To train students to generate solutions to the problems arising while performing specialized therapeutic procedures for dialysis patients.
- To prepare industry oriented professionals in Dialysis Technology with a specific emphasis on acquiring clinical and technical skills perform Haemodialysis and Peritoneal Dialysis in Acute and Chronic Kidney failure Patients at the direction of a Nephrologist / physician.
- To train students to understand risk factors of kidney diseases and technical aspect of renal replacement therapies.

### Programme Learning Outcomes

- Students explain Human Anatomy with special reference to Kidney.
- Students explain Human Physiology with the special reference of Kidney Functions.
- Students describe kidney disease and type Renal Replacement Therapies.
- Students explain applications of Pathology and Microbiology related to kidney disease and dialysis.
- Students explain application of Biochemistry and Basics Nutrition in kidney disease and Dialysis.

### Eligibility for Admission

The eligibility for admission to BSc in Dialysis Technology is 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

*A career in research, following the completion of a higher degree is an option chosen by some graduates. Graduates are also eligible for employment overseas where their qualifications, training and experience are highly regarded. They are also employed in hospitals and private practices as Dialysis Technicians.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DT 1.1	Introduction to Human Anatomy	2
	DT 1.2	Introduction to Human Physiology	2
	DT 1.3	Introduction to Kidney Disease and Renal Replacement Therapy	2
	DT ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	DT 2.1	Pathology and Microbiology	2
	DT 2.2	Biochemistry and Basic Nutrition.	2

	DT 2.3	Principle and Types of Dialysis	2
	DT ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	DT 3.1	Pharmacology Related to Dialysis Technology	2
	DT 3.2	Concept of Kidney Disease	2
	DT 3.3	Applied Dialysis Technology - I	2
	DT ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	DT 4.1	Equipment in Dialysis.	2
	DT 4.2	Patient Care	2
	DT 4.3	Applied Dialysis Technology - II	2
	DT ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	DT 5.1	Applied Dialysis Technology - III	2
	DT 5.2	Clinical Dialysis - I	2
	DT 5.3	Renal Nutrition	2
	DT ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	DT 6.1	Advance Dialysis Technology	2
	DT 6.2	Clinical Dialysis II	2

	DT 6.3	Instrumentation	2
	DT ST 6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	BSc in Dialysis Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Apex Kidney care, Shihab Thangal Hospital, PMSA Tirur - Cooperative Hospital
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>



### Programme Learning Outcomes

- Assist with kitchen operations like chopping, cleaning, etc with the help of the different equipments of the kitchen. Assist with making of sauces, gravies, pastes, soups and stock
- Set up the table in a restaurant before and after a meal. Clearing the table after a meal. Service of non-alcoholic beverages.
- Basic telephone handling and welcoming and greeting the guest in the Hotel Front Office. Managing reservations and luggage.
- Bed making, cleaning of a guest bedroom and public areas of a hotel
- To be able to assist with operations in a bakery and understand the process of making baked items
- Suggest wine for different foods, read wine labels and service of wines, beer and preparation of popular cocktails
- Managing group reservations, registrations and payments. Managing customer queries and complaints
- Setting up of a chamber maid's trolley. Flower arrangement for rooms and public spaces
- To know the ingredients and processes used in cooking of French, Italian, Japanese and Thai cuisines. To be able to make prepare basic international desserts
- Service of liqueurs, cigarettes and cigars. Knowledge of bar processes and management
- Complaint handling and upselling at the Front Office. Check out of guests. Should have knowledge and know-how of yield management and forecasting techniques.
- To be able to assist in the management of contract service providers like pest control and laundry. To assist with the budgeting of the Housekeeping department.
- Students will be able to work in Aviation Industry whether on Ground or in Air as hospitality professional
- Students will also be qualified to work for Cruising, Spa and Car Rental Industries

### Eligibility for Admission

The eligibility for admission to Bachelor in Hospitality Management is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*There are numerous opportunities available in hospitality management. Graduates can apply for work at any Travel Agencies, Hotels, Restaurants, Tour Operating Companies, Aviation Companies, Event Management companies, Visitor Bureaus, etc. Besides these, many hotels and resorts also look for skilled professionals in hotel management.*

*Some profiles available after Bachelor in Hospitality*

*Management are Front Office Executive, Inflight services executives, Spa Managers, Resort Managers, Food and Beverage Executives, Sales Manager, Customer Relationship Executives, Customer Service agents, Managers, Executive Housekeepers, Event Manager, Convention Service Managers and Front Office Managers. The graduates can also opt for further education in hotel management.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	THM 1.1	Introduction to Tourism and Hospitality Industry	2
	THM 1.2	Overview of Aviation Industry and Foundation Course in Front Office	2
	THM 1.3	Food and Beverage Production and Service	2
	THM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	THM 2.1	Basics of Event Management - World Geography and Time Zones	2
	THM 2.2	Menu Planning and House Keeping - I	2
	THM 2.3	Food and accompaniments - Indian and Continental	2

	THM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	THM 3.1	Food and Beverage Production and Service - II	2
	THM 3.2	Housekeeping - II and Inflight Services	2
	THM 3.3	Food Accompaniment - Oriental and Food Safety and Hygiene	2
	THM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	THM 4.1	Food and Beverage Service - III and Restaurant Service	2
	THM 4.2	Front Office Operations - II and MICE Activities	2
	THM 4.3	Service in Specific Sector and Cabin Crew Career	2
	THM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	THM 5.1	Food and Beverage Management and Services - V	2
	THM 5.2	Allied Hospitality Management and Introduction to Cruise Industry	2
	THM 5.3	Learning Foreign Language (Spanish)	2
	THM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2

	THM 6.1	Introduction to SPA Industry Introduction to Car Rental Industry	2
	THM 6.2	Food and Beverage Services - IV Entrepreneurship Development	2
	THM 6.3	Airline Customer Services	2
	THM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: (Rs. 48,000/-per annum)**

**Examination Fees: (Rs. 1,600/- per semester and Rs.3200/- per annum)**

**Caution Deposit (Refundable): Rs.5000/-**

**Certification Charges: Rs. 2500/-**

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Hospitality Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Pinnacle Events, E-Positive
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN HOTEL MANAGEMENT

### Programme Introduction

Bachelor in Hotel Management is a 3-year job-oriented skill education and training programme in the hotel management domain. The programme imparts skills and knowledge related to hotel management. Hotel management is about the techniques of managing a hotel business including Front Office, Administration, Marketing, Foods and Beverages Management, Housekeeping and Accounts. With the rapid expansion of Tourism industry, the demand for good hotel management professionals has increased tremendously. Hotels and restaurants are looking for skilled professionals who can handle all their activities and help them increase their sales.



### Programme Objectives

- To develop the right skills necessary in the Hotel industry so as to meet the requirements according to the industry expectations
- To understand the operations and hierarchy in each of the core departments of the hotel
- To gain knowledge and develop the skills required in F&B Production and Service
- To understand the importance of housekeeping and to develop the required skillset to perform Housekeeping functions
- To understand the dynamics of hotel tariff and the yield management in hotel sales
- To understand the basic knowledge in hygiene, food safety and nutrition in line with international standards
- To understand the newer technologies adopted in Hotel environment especially in automation of information
- To enable the candidates to manage any hospitality, tourism and other allied industries
- To get insight of Hotel accounting and process of posting the records from various points of sales

### Programme Learning Outcomes

- Assist with kitchen operations like chopping, cleaning, etc with the help of the different equipment of the kitchen. Assist with making of sauces, gravies, pastes, soups and stock
- Set up the table in a restaurant before and after a meal. Clearing the table after a meal. Service of non-alcoholic beverages
- Basic telephone handling and welcoming and greeting the guest in the Hotel FrontOffice. Managing reservations & luggage
- Bed making, cleaning of a guest bedroom and public areas of a hotel
- To be able to assist with operations in a bakery and understand the process of making baked items
- Suggest wine for different foods, read wine labels and service of wines, beer and preparation of popular cocktails
- Managing group reservations, registrations and payments. Managing customer queries and complaints
- Setting up of a chamber maid's trolley. Flower arrangement for rooms and public spaces
- To know the ingredients and processes used in cooking of French, Italian, Japanese and Thai cuisines. To be able to make prepare basic international desserts
- Service of liqueurs, cigarettes and cigars. Knowledge of bar processes and management  
Complaint handling and upselling at the Front Office. Check out of guests. Should have knowledge and know-ow of yield management and forecasting techniques.
- To be able to assist in the management of contract service providers like pest control and laundry. To assist with the budgeting of the Housekeeping department.
- Be able to understand the logic of dynamic tariff to achieve better yield in sale of hotel rooms
- Be able to know the server and cloud based PMS and their benefits
- Be able to understand the application of technology in different areas of Hotel Operations.

### Eligibility for Admission

The eligibility for admission to Bachelor in Hotel Management is 10+2 or equivalent, in any stream.

### Career Prospects /Job Roles

*There are numerous opportunities available in Hotel Management. Graduates can apply for work at various Hotels, Restaurants, Cruises, Airlines, Airports, Spa, Travel Agencies, Tour Operating Companies, Event Management Companies, etc. Most hotels and resorts always look for skilled professionals in Hotel Management.*

*Some profiles available after being a Bachelor in Hotel Management are Front Desk Executive, Food and Beverage Executive, Housekeeping Executive, Sales Manager, Chef, Resident Managers, Executive Housekeepers, Convention Service Managers and Front Office Managers. They can also opt for further education in Hotel Management.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	HM 1.1	Introduction to Hospitality and Overview of Tourism Industry	2
	HM 1.2	Foundation Course in Food and Beverage Production and Service - I	2
	HM 1.3	Foundation Course in Front Office and House Keeping Operations - I	2
	HM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	HM 2.1	Food and Beverage Production and Service - II	2
	HM 2.2	Front Office and House Keeping Operations - II	2
	HM 2.3	Basics of Event Management and Allied Hospitality Management	2
	HM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	HM 3.1	Food & Beverage Production and Service - III	2
	HM 3.2	Front Office & House Keeping Operations - III	2
	HM 3.3	Hotel Accountancy and Hotel Automation	2

	HM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	HM 4.1	Food and Beverage Production and Service - IV	2
	HM 4.2	Front Office and House Keeping Operations - IV	2
	HM 4.3	Hospitality Marketing and Technology in Hotel Management	2
	HM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
V	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	HM 5.1	Food & Beverage Production and Service - V	2
	HM 5.2	Front Office and House Keeping Operations - V	2
	HM 5.3	Food and Beverage Management and Hotel Costing	2
	HM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
VI	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	HM 6.1	Food and Beverage Production and Service - VI	2
	HM 6.2	Front Office and House Keeping Operations - VI	2
	HM 6.3	Hospitality Law and Entrepreneurship Development	2
	HM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Hotel Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Holiday Inn, Crown Plaza, Hilton, Ibis, Hotel Kenilworth, The Orchid, IRA by Orchid, The Leela- All consent letters
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## **BACHELOR IN HOTEL MANAGEMENT (GOLDEN THRESHOLD PROGRAMME)**

### **Programme Introduction**

Golden Threshold Training programme gives a new dimension to higher education in Hospitality Management. School of Skill Education, TISS, manages the academic aspect, covering theory classes and conducting examinations, over six semesters according to approved syllabus. The students will learn on the job in IHCL hotels, as per professionally drawn schedule, covering all aspects of Hotel Management. IHCL will guide, train, mentor and monitor the on-the-job training, with periodic formal evaluations. On successful completion of 6 semesters and corresponding practical training in IHCL hotels, TISS will award Bachelor in Hotel Management. IHCL will pay a stipend covering cost of tuition fees and some other expenses as well.

### **Programme Objectives**

- To develop the right skills necessary in the Hotel industry so as to meet the requirements according to the industry expectations
- To understand the operations and hierarchy in each of the core departments of the hotel
- To gain knowledge & develop the skills required in F&B Production & Service
- To understand the importance of housekeeping and to develop the required skillset to perform Housekeeping functions
- To understand the dynamics of hotel tariff and the yield management in hotel sales
- To understand the basic knowledge in hygiene, food safety and nutrition in line with international standards
- To understand the newer technologies adopted in Hotel environment especially in automation of information
- To enable the candidates to manage any hospitality, tourism and other allied industries
- To get insight of Hotel accounting and process of posting the records from various points of sales

### **Programme Learning Outcomes**

- Assist with kitchen operations like chopping, cleaning, etc with the help of the different equipment of the kitchen. Assist with making of sauces, gravies, pastes, soups and stock
- Set up the table in a restaurant before and after a meal. Clearing the table after a meal. Service of non-alcoholic beverages
- Basic telephone handling and welcoming and greeting the guest in the Hotel Front Office. Managing reservations & luggage
- Bed making, cleaning of a guest bed room and public areas of a hotel
- To be able to assist with operations in a bakery and understand the process of making baked items
- Suggest wine for different foods, read wine labels and service of wines, beer and preparation of popular cocktails
- Managing group reservations, registrations and payments. Managing customer queries and complaints
- Setting up of a chamber maid's trolley. Flower arrangement for rooms and public spaces
- To know the ingredients and processes used in cooking of French, Italian, Japanese and Thai cuisines. To be able to make prepare basic international desserts
- Service of liqueurs, cigarettes and cigars. Knowledge of bar processes and management
- Complaint handling and upselling at the Front Office. Check out of guests. Should have knowledge and know-how of yield management and forecasting techniques
- To be able to assist in the management of contract service providers like pest control and laundry. To assist with the budgeting of the Housekeeping dept.
- Be able to understand the logic of dynamic tariff to achieve better yield in sale of hotel rooms
- Be able to know the server and cloud based PMS and their benefits
- Be able to understand the application of technology in different areas of Hotel Operations

### **Eligibility, Programme Requirements and Highlights**

- Recent Class XII passed outs between 17-21 years of age as on July 1, 2025 (or which is applicable at the time of admission year) are eligible to apply.
- Selected candidates must be proficient in written and spoken English.
- TISS SSE will confer a Bachelor's degree upon satisfactory completion of the six-semester course.
- IHCL, through the monthly stipend, will cover the cost of tuition for selected candidates and help defray expenses.

- Deserving students will be offered career placement with IHCL upon graduation.
- The degree does not require any bonds and students are free to pursue other opportunities.

### Career Prospects /Job Roles

*Deserving students will be offered career opportunities with IHCL upon graduation.*

*On joining IHCL, the students can progress in their careers as per the career progression policies of the company.*

*The option to join Hotelier Development Programme (in-house Taj Management Training Programme) or Hotels Operations Training (in-house Taj Supervisory Training Programme) will also be opened on programme completion. The students will not be required to fill any bond and will be free to pursue any available opportunities in any other company or pursue further studies upon completion of the programme. They can also work as Housekeepers, Convention Service Managers and Front Office Managers.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	HM 1.1	Introduction to Hospitality and Overview of Tourism Industry	2
	HM 1.2	Foundation Course in Food and Beverage Production and Service - I	2
	HM 1.3	Foundation Course in Front Office & House Keeping Operations - I	2
	HM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	HM 2.1	Food and Beverage Production and Service - II	2
	HM 2.2	Front Office & House Keeping Operations - II	2
	HM 2.3	Basics of Event Management & Allied	2

		Hospitality Management	
	HM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	HM 3.1	Food & Beverage Production and Service - III	2
	HM 3.2	Front Office & House Keeping Operations - III	2
	HM 3.3	Hotel Accountancy and Hotel Automation	2
	HM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	HM 4.1	Food & Beverage Production and Service - IV	2
	HM 4.2	Front Office and House Keeping Operations - IV	2
	HM 4.3	Hospitality Marketing & Technology in Hotel Management	2
	HM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	HM 5.1	Food and Beverage Production and Service - V	2
	HM 5.2	Front Office and House Keeping Operations - V	2
	HM 5.3	Food and Beverage Management and Hotel Costing	2
	HM ST5	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	HM 6.1	Food & Beverage Production and Service - VI	2
	HM 6.2	Front Office and House Keeping Operations - VI	2
	HM 6.3	Hospitality Law and Entrepreneurship Development	2
	HM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme fees:** Rs. 52,800/-per annum

**Examination fees:** Rs.1,600/- per semester and Rs. 3,200 per annum

**Caution Deposit (Refundable):** Rs.5000

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Hotel Management (Golden Threshold programme)
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	IHCL (Taj Group)
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN TRAVEL AND TOURISM

### Programme Introduction

The programme defines Tourism, the concepts and principles of tourism industry history, growth and development of Tourism (Historical References), Motivators of tourism, Types of tourism and Categories of tourists.



### Programme Objectives

- To add value to the tourism industry of country and help students to give value to their natural and cultural heritage
- Professional knowledge and skills related to travel and tourism industry to generate business ideas
- To gain knowledge and develop the skills required in F&B Production and Service
- To understand the best practices for sustainable development of travel and tourism industry
- To research, evaluate, and implement ideas for better services and new tourism product development
- To Exhibit ethical, interpersonal and management skills for teamwork

### Programme Learning Outcomes

- The incumbent should work with clear choice of procedures in familiar context of Tourist Travel Services or Establishments and maintaining good relationship with customer to build confidentiality/loyalty
- Interpret travel documentation, customer centricity to handle customer queries, skills like self-motivation, communication, team handling and ability to resolve problems
- Performing the ability to carry out pre-training preparations, demonstrations of operations related to travel and tourism industry, administers the company operations, maintain relationship with staff, suppliers like hotels, companies, clients and tourist establishments for developing new business
- Analyze and understand the Tourist's needs and coordinate with Research and Development team to work out innovative solutions to design more attractive tourist itineraries and to develop new tourism products
- Assess business goals, design and implement processes, identify local conditions and market conditions and take decisions on type of tourist product to be developed and infrastructure, labour need and to assess the commercial/environmental impacts of the tourist product
- Analyze tourism business and provide consultancy services to the tourists for specialized tourist products and consider prevailing statutory and regulatory compliances

### Eligibility for Admission

The eligibility for admission to Bachelor in Travel and Tourism is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*The employment opportunities visualized for Bachelor in Travel and Tourism are Tourist Assistant, Travel Agent, Tour Guide, Tour and Travel Management, Event Management, Entrepreneurship in Tourism Industries and Hotel Assistant.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	TT 1.1	Introduction to Tourism	2
	TT 1.2	Modes of Transport	2
	TT 1.3	Tourism resources and Products - I	2
	TT ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	TT 2.1	Tourism Geography	2
	TT 2.2	Travel Agency and Tour Operations - I	2
	TT 2.3	Accommodation Sector	2
	TT ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	TT 3.1	Tourism Resources and Products - II	2
	TT 3.2	Travel Agency and Tour Operations - II	2
	TT 3.3	Fare Construction	2
	TT ST3	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	TT 4.1	Passenger Ground Service	2
	TT 4.2	Marketing	2
	TT 4.3	Guiding Skills - I	2
	TT ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	TT 5.1	Tourism Demand and Supply	2
	TT 5.2	Tourism Marketing	2
	TT 5.3	New Concepts in Tourism	2
	TT ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	TT 6.1	World Geography and popular destinations	2
	TT 6.2	Entrepreneurship in Tourism	2
	TT 6.3	Impacts of Tourism	2
	TT ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: (Rs. 52,800/-per annum)**

**Examination Fees: (Rs. 1,600/- per semester and Rs. 3200/- per annum)**

**Caution Deposit (Refundable): Rs. 5000/-**

**Certification Charges: Rs. 2500/-**

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor In Travel and Tourism
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Skywings Holidays, Memories Worldwide, Dream Chasers, Magic Trip Holidays LLP
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# IT-INFORMATION TECHNOLOGY ENABLED SERVICES (IT-ITeS) SECTOR

## Introduction of the Sector

In today's digital era Information and Communication Technology have become one of the basic requirements of society. It is difficult to think of any event without the use of digital devices. ITeS sector includes IT services, engineering design, Research and Development (R&D) services and Business Process Outsourcing (BPO) services.

IT includes a wide variety of operations that uses information technology to improve the efficiency of any organization. ITeS services are delivered over telecom or data network to a range of external business areas. The changing economic and business conditions, rapid technological innovation, the proliferation of the internet and globalization are creating an increasingly competitive environment.

The role of technology has evolved from supporting corporations to transforming them. All these factors have made IT-ITeS a competent vertical among others.



## BACHELOR IN SOFTWARE DEVELOPMENT

### Programme Introduction

Software development is the process of conceiving, specifying, designing, programming, documenting, testing and bug fixing involved in creating and maintaining applications, frameworks or other programming segments.

Software development may likewise be called application development and software design. Software development is a procedure of composing and maintaining the source code, however in a broader sense, it incorporates all that is included between the conceptions of the desired software through to the final manifestation of the software.

System software underlies applications and the programming procedure itself and is often developed independently.

Software developers are the creative personalities behind computer programmes. Some develop the applications that enable individuals to do specific assignments on a computer or another device. Others build up the fundamental frameworks that run the gadgets or that control networks. Every business firm or association needs a software programme to perform different tasks which can ease out the work of a person and reduce the requirement of labour.



It is a well-known fact that for any kind of Software application, development of software is required.

Bachelor in Software Development not only covers programming aspect but also covers other capabilities required in the overall process of software development.

### **Programme Objectives**

- To impart the functional knowledge of IT service domain, operations of Data from varied sources and prepare the candidates ready to acquire the position of IT Helpdesk Attendant/Database Administrator in any industry
- To impart the concepts of web designing, OOPs concepts, Networking and prepare the learner ready to acquire the position of Associate Web Designer/ Junior Web Designer/ Network Administrator in IT Industry
- To impart the knowledge of higher level programming languages, VB. Net, PHP, OOPs concept with JAVA, Python and prepare the learner ready to acquire the position of Web Developer/Senior Web Designer in any Industry
- To impart the in-depth knowledge of data structure with its application & various methods to understand the software development life cycle thus prepares the learner for position of Software Developer/Computer Programmer in IT Industry
- To impart the knowledge of current trends in IT industry and provide the skills of application development in android platforms thus make the learner future ready to acquire the position of Senior Mobile App Developer
- To impart advance concepts of data mining and project management and help the learner to be successful Project Manager

### **Programme Learning Outcomes**

- Operate Computer system to use various Programming concepts effectively. Use office automation tools in workplace
- Implement Web Designing techniques to develop web pages
- Effectively develop applications with full functionality and a graphical user interface using the advanced programming languages
- Handle Database of software applications/ websites
- Assist in establishing networking in workplace. Assist in handling social media profiles and organizing Tele conferencing Page 8 of 56
- Demonstrate the steps involved in the programming process
- Demonstrate the use of multimedia elements like text and sound
- Create make UI-rich apps using all the major UI components
- Design the architecture and implementation of a web application that will meet a set of functional requirements, user interface requirements, and address business models.
- Use Project Management Tool to overview the status of ongoing project and plan accordingly

### Eligibility for Admission

The eligibility for admission is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Career prospects after Bachelor in Software Development are working as a Software Developer, Front-end Developer, Backend Developer, Web Developer, Desktop Developer, Mobile Developer, Software Engineer, Database Administrator, IT Architect, Network Administrator, Systems Analyst, Graphics Developer, Game Developer, Data Scientist, Big Data Developer, Customer relationship management (CRM) Developer, Software Development Engineer in Test (SDET)*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	SD 1.1	IT Foundations and Programming Concepts	2
	SD 1.2	Web Designing	2
	SD 1.3	Programming in Python	2
	SD ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	SD 2.1	Database Management Systems	2
	SD 2.2	Object Oriented Programming with Python	2
	SD 2.3	Computer Communication and Networks	2
	SD ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	SD 3.1	Programming with Visual Basic.Net	2

	SD 3.2	Data Structure	2
	SD 3.3	Web Development Using PHP	2
	SD ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	SD 4.1	Object Oriented Programming with JAVA	2
	GE 4.2	Organizational Behaviour	2
	SD 4.2	Linux Operating System - Operations and Management	2
	SD 4.3	Software Engineering	2
	SD ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	SD 5.1	Concepts of Data Mining	2
	SD 5.2	Software Testing and Project Management	2
	SD 5.3	Multimedia Tools and Applications	2
	SD ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	SD 6.1	Android Mobile Application Development	2
	SD 6.2	Technology Trends in IT	2
	SD 6.3	Web Application Development with ASP.NET MVC and C#	2
	SD ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

*Note: Laptop / Desktop is recommended for the programme.*

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Software Development
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Appopoleis, Kanishka Software Private Ltd, Beaconcross Technoloies Pvt, Sgm Technologiez, Intelloger Software Pvt Ltd, Virtual Education Trust, Kantascrypt Private Limited, Brainybeam Infotech Pvt Ltd, Prudent Tech It Solution
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which AC Approved</b>	16 <sup>th</sup> July, 2014
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BSC IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

### Programme Introduction

As per a report published by Gartner, Artificial Intelligence is expected to create a huge job market with around 2.3 million opportunities during 2020-2021. This number gets bigger with each passing day as more and more companies are transforming themselves to harness the power of data lying with them.



“Data is the new oil”, there is a deeper truth to this saying than being mere words. Data has been growing by leaps and bounds like never before. Most industries across the globe, adopted data analytics as one of their chief functions since the last decade. This has fueled the development of Artificial Intelligence (AI) and Machine Learning (ML) as chief disciplines. Data analysis has multi-faceted functions; it has helped businesses attain key goals, decipher actionable insights, formulate critical decisions and generate innovative products and services.

The course brings an overall platter of knowledge and skills, needed to hop on the ML and AI domains. With a diligently crafted course curriculum, students will gain a root-level understanding of concepts driving the ML algorithms. Successful completion of the courses will enable students to take on multiple job roles in the data analytics discipline.

### Programme Objectives

- This programme would enable students to understand the principles of Artificial Intelligence and Machine learning in practice and in application
- Students will be able to make a successful career transition into the hot field of machine learning
- The program structure encloses all the major disciplines to deliver a thorough knowledge on AI and ML
- Every course ramps up the awareness level across Maths, Programming, Statistics, all that is needed to master AI and ML
- This program facilitates the development of the student’s complete skillset ranging from understanding data to its cleaning to analysis and final presentation of insights using advanced machine learning concepts
- The program involves training on wide range of popular data analysis tools – R, Python, Tableau to name a few

### Eligibility for Admission

The eligibility for admission to BSc in Artificial Intelligence and Machine Learning is '10+2 (Science & Maths) or equivalent in Information Technology stream with minimum 60%'.

### Career Prospects/Job Roles

*Skills in ML can also lead to fresh graduates becoming junior data scientists. They can take up the role of a Data Scientist in Deep Learning. Those interested in end-point security can have a career in Automation with ML, for example to recognize file malware threats and deal with them effectively. Many jobs are available as Scientist in Analytics and Machine Intelligence, AI Data Analyst, AI Research Scientist Machine Learning Engineer/Developer.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	AI 1.1	Foundational Course on Artificial Intelligence (AI) and Machine Learning (ML)	2
	AI 1.2	Mathematics for Data Science	2
	AI 1.3	Programming Concepts and Problem Solving Using Python	2
	AI ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	AI 2.1	Fundamental Programming Using R	2
	AI 2.2	Statistics for Data Science	2
	AI 2.3	Machine Learning Methods Using Python and R - I	2
	AI ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2

	AI 3.1	Database Management Systems and Data Warehousing	2
	AI 3.2	Programming for AI and ML using Python and R	2
	AI 3.3	Advance Statistics for Data Science	2
	AI ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	AI 4.1	Machine Learning Methods using Python and R - II	2
	AI 4.2	Big Data and NoSQL	2
	AI 4.3	Data Visualization and Storytelling with Tableau	2
	AI ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	AI 5.1	Natural Language Processing with Machine Learning	2
	AI 5.2	Artificial Intelligence and Robotics	2
	AI 5.3	Machine Learning for Business Domains - Marketing Analytics	2
	AI ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	AI 6.1	Computer Vision Using Artificial Intelligence	2
	AI 6.2	Machine Learning for Business Domains - HR Analytics	2
	AI 6.3	Machine Learning for Business	2

		Domains - Finance and Risk Analytics	
	AI ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

*Note: Laptop / Desktop is recommended for the programme.*

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 60,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	BSc in Artificial Intelligence and Machine Learning
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Brainovision, Soft Scibble, Champspace, One Spot Nexusinfo Pvt Ltd, Greybath Technology Pvt Ltd, Sunix AI, Androapps Technologies, Integrate360, Nextgen Techno Ventures Pvt Ltd, Pentafox Technologies Pvt Ltd
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Date on which BoS Approved</b>	7 <sup>th</sup> June 2021
(g)	<b>Date on which AC Approved</b>	9 <sup>th</sup> June 2021
(h)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# LIFE SCIENCES SECTOR

## Introduction of the Sector

The pharmaceutical industry in India ranks 3rd in the world in terms of volume and 14th in terms of value, the Indian pharmaceutical market has a growth of 10 percent year by year.

India contributes the second-largest share of the pharmaceutical workforce in the world. It has 3000 drug companies and about 10, 500 manufacturing units.

With the expected growth rate of 14% per annum, the Indian Pharmaceutical sector is expected to create more jobs in India in the future. The 'Pharma Vision 2020' by the government's Department of Pharmaceuticals aims to make India a major hub for an end-to-end drug discovery. The pharma sector has a competitive advantage of prospering steadily and thus attracts lots of young professionals looking at pharmaceutical as their prospective career option.



## BSC IN PHARMACEUTICAL MANUFACTURING

### Programme Introduction

By considering the latest practices in pharmaceutical industry, the syllabus is designed to meet the theoretical aspects required for Skill Education. The syllabus is designed in consultation with subject matter experts from industry and colleges operating in pharmaceutical domain. The syllabus also offers electives to choose by considering different pharmaceutical products.



### Programme Objectives

- To know various pharmaceutical dosage forms, Various manufacturing operations are involved in the production of pharmaceutical dosage forms and to learn daily routine of production.
- To develop use of classic physical pharmacy principles which apply to commercial dosage forms and to learn various dosage forms used to administer drugs, knowledge of mixing & types of mixers.
- To implement good manufacturing practices along with knowledge of pharmaceutical microbiology, understand the various concepts of parenteral preparations, their manufacturing process and process requirements and technology used for their preparations.
- To know about chemicals and its application as drugs & to know the process and knowledge of chemistry and its usage in pharma industry, to understand the concept of various utilities available and their working methodology & its application.

- To Learn fundamental information and the general principles underlying the use of pharmacological agents, understand basics concepts and importance of quality control with relevant GMP guidelines.
- To Learn industry regulations and the related legal laws available, to be aware of various quality control process related tests performed and to learn basic principles of pharmacodynamics and pharmacokinetics.

### **Programme Learning Outcomes**

- Student is able to explain various pharmaceutical dosage forms, various manufacturing operations involved in the production of pharmaceutical dosage forms. He is also able to demonstrate daily routine of production.
- Student is able to explain physical pharmacy principles which apply to commercial dosage forms and to explain various dosage forms used to administer drugs, demonstrate mixing and working of types of mixers.
- Student should be able to follow good manufacturing practices along with knowledge of pharmaceutical microbiology, explain various concepts of parenteral preparations, their manufacturing process and process requirements and technology used for their preparations.
- Student should be able to explain chemicals and its application as drugs and processes of chemistry and its usage in pharma industry, to explain the concept of various utilities available and their working methodology and application.
- Student should be able to explain the general principles underlying the use of pharmacological agents, explain basics concepts and importance of quality control with relevant GMP guidelines.
- Student should be able to list out industry regulations and the related legal laws available, to perform various quality control process related tests and to explain basic principles of pharmacodynamics and pharmacokinetics.

### **Eligibility for Admission**

The eligibility for admission to BSc in Pharmaceutical Manufacturing is 10+2 or equivalent, in science stream.

### **Career Prospects/Job Roles**

*BSc in Pharmaceutical Manufacturing offers opportunities to become Health Inspector, Analytical Chemist, Research Officer, Chemical/Drug Technician, Drug Therapist, Data Manager, Drug Inspector, Hospital Drug Coordinator, Medical Transcriptionist, Regulatory Manager.*

**SEMESTER-WISE LISTING OF COURSES**

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
<b>I</b>	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	PM 1.1	Pharmaceutical Dosage Forms - I	2
	PM 1.2	Pharmaceutical Technology - I	2
	PM 1.3	Liquid Dosage Forms and Technology	2
	PM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	PM 2.1	Pharmaceutical Dosage Forms - II	2
	PM 2.2	Pharmaceutical Technology - II	2
	PM 2.3	Good Manufacturing Practices - I	2
	PM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	PM 3.1	Pharmaceutical Microbiology	2
	PM 3.2	Pharmaceutical Dosage Form - III	2
	PM 3.3	Pharmaceutical Chemistry - I	2
	PM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	PM 4.1	Pharmaceutical Technology - III	2
	PM 4.2	Pharmaceutical Packaging	2
	PM 4.3	Quality Control - I	2
	PM ST4	Skill Training*	12

	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	PM 5.1	Pharmacology - I	2
	PM 5.2	Good Manufacturing Practices - II	2
	PM 5.3	Enterprise Resource Planning and Documentation	2
	PM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	PM 6.1	Pharma Regulatory Affairs	2
	PM 6.2	Pharmacology - II	2
	PM 6.3	Quality Control - II	2
	PM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 42,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

## Programme Summary

(a)	<b>Name of the Programme</b>	BSc In Pharmaceutical Manufacturing
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Granules India Limited, MSN Laboratories P Limited and MSN Life Sciences Pvt Ltd
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BSC IN MANUFACTURING TECHNOLOGY (PHARMACEUTICAL CHEMISTRY)

### Programme Introduction

By considering the latest practices in pharmaceutical industry, the syllabus is designed to meet the theoretical aspects required for Skill Education in consultation with subject matter experts from industry and colleges operating in pharmaceuticals domain.



### Programme Objectives

- To know the basics of applied physics and applied chemistry and to develop understanding of basic manufacturing operations such as size reduction techniques.
- To develop use of pharmaceutical chemistry and Total productive maintenance in Basic manufacturing operations.
- To implement good manufacturing practices along with knowledge of Drugs and Cosmetics Act.
- To learn pharmaceutical analysis, good laboratory practices and understand project management and supply chain management.
- To learn materials of plant construction and factors affecting various machinery.
- To learn good warehousing and distribution practices along with safety and precautions and hazard management.

### Programme Learning Outcomes

- Student is able to explain the concepts of applied physics and applied chemistry relevant to pharmaceutical manufacturing. He is also able to demonstrate various size reduction techniques.
- Student is able to explain various applications of pharmaceutical chemistry and demonstrate productive maintenance during basic manufacturing operations.
- Student should be able to follow good manufacturing practices during the entire manufacturing process and document the same, he should also be able to explain the provisions of Drugs and Cosmetics Act.
- Student should be able to explain various analytical techniques and principles, GLP procedures and explain the various project management and supply chain management concepts.
- Student should be able to demonstrate use of various equipment and tools, demonstrate knowledge of plant construction materials, and explain basic ERP systems.
- Student should be able to list out and demonstrate industrial hazards and accompanied safety precautions and to demonstrate good warehousing and good engineering practices.

### Eligibility for Admission

The eligibility for admission to BSc in Manufacturing Technology (Pharmaceutical Chemistry) is 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

*BSc in Manufacturing Technology (Pharmaceutical Chemistry) opens opportunities for the graduates to work as Health Inspector, Analytical Chemist, Research Officer, Chemical/Drug Technician, Drug Therapist, Data Manager, Drug Inspector, Hospital Drug Coordinator, Medical Transcriptionist, Regulatory Manager.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	MTPC 1.1	Manufacturing Operations I - Size Reduction Techniques	2
	MTPC 1.2	Applied Physics	2
	MPTC 1.3	Applied Chemistry	2

	MTPC ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>II</b>	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	MTPC 2.1	Applied Chemistry Part II and Basics of Total Productive Maintenance (TPM)	2
	MTPC 2.2	Manufacturing Operations II	2
	MTPC 2.3	Pharmaceutical Chemistry I	2
	MTPC ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	MTPC 3.1	Manufacturing Operations - III	2
	MTPC 3.2	Pharmaceutical Chemistry - II	2
	MTPC 3.3	Pharmaceutical Chemistry - III	2
	MTPC ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	MTPC 4.1	Project Management and Supply Chain Management: Introduction	2
	MTPC 4.2	Pharmaceutical Chemistry IV and Pharmaceutical Analysis I	2
	MTPC 4.3	Manufacturing Operations IV	2
	MTPC ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	MTPC 5.1	Manufacturing Operations V	2
	MTPC 5.2	Enterprise Resource Plan- ning and Environmental Sciences	2

	MTPC 5.3	Supply Chain Management and Strategy	2
	MTPC ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	MTPC 6.1	Manufacturing Operations VI	2
	MTPC 6.2	Good Engineering Practices and Engineering Drawing	2
	MTPC 6.3	International Regulatory Perspective of New Drug Development	2
	MTPC ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 42,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

**Programme Summary**

(a)	<b>Name of the Programme</b>	BSc In Manufacturing Technology (Pharmaceutical Chemistry)
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Emcure Pharmaceuticals Ltd, Heterolabs
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# MANAGEMENT AND ENTREPRENEURSHIP SECTOR

## Introduction of the Sector

Management is a key skill of getting things done through and with people, whereas Entrepreneurship is a mindset that requires creativity, innovation and professional skills while addressing a new opportunity. The process of improving professional skills and knowledge of entrepreneurs and to increase the number of entrepreneurs is the salient aim of the sector.



## BACHELOR IN SALES AND MARKETING

### Programme Introduction

The programme is meant to give the students an initial understanding of what is sales, its brief history, the concept, and processes. The objective of this course is to give the students an insight into the various types of sales and its application to business.



### Programme Objectives

- To give the participant an insight in to the various types of sales and its application to business.
- To educate the participant on the various skill/qualities that need to be imbibed to become a successful sales person.
- To enable the participant to analyze the markets, understand consumer behaviour and the promotional strategies used.
- To explain to the participant the entire sales cycle including the post sales follow-up.
- To sensitize the participants about the importance of building rapport, relationships, and trust to be a successful sales person.
- The objective of the practical training is to be able to analyse the market, understand the consumer behaviour.

### Programme Learning Outcomes

- To Analyze the market for the product/service of the company and submit a report.
- Understand and practise up-selling to customers.
- Gather adequate product/service knowledge for consultative selling/ Negotiation Skills.
- Understand the concept of consumer behaviour.
- Ensure the product / service delivered meets the agreed requirements (practical).
- Analyze the various distribution channels involved in the sales sector.

### Eligibility for Admission

The eligibility for admission to Bachelor in Sales and Marketing is 10+2 or equivalent, in any stream.

### Career Prospects

*After completing Bachelor in Sales and Marketing Management course, the graduate will be able to find jobs in sectors and establishments such as Retail Chains, Retail Stores, Supply Chain Management Firms, Advertising Firms, Public Relations (PR) Firms, Branding Firms, Sales and Marketing Agencies, Sales and Marketing Consultancy and Market Research Assistant.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	SM 1.1	Understanding Sales	2
	SM 1.2	Skills for Effective Sales	4
	SM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
	GE 1.1	Functional English	2
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	SM 2.1	Market Analysis	2
	SM 2.2	Sales Process	2
	SM 2.3	Methods of Effective Sales	2
	SM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	SM 3.1	Sales Distribution Network	2
	SM 3.2	B2B and B2C Sales	2

	SM 3.3	Reimbursements and Incentives	2
	SM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	SM 4.1	Sales in Rural Markets	2
	SM 4.2	Use of Social Media for Sales	2
	SM 4.3	Market Segmentation	2
	SM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
V	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	SM 5.1	Retail Sales - I	6
	SM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
VI	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	SM 6.1	Retail Sales - II	6
	SM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 36,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

## Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Sales and Marketing
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Krazzy Innovations, Team Lease Services Limited
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## BACHELOR IN OPERATIONS

### Programme Introduction

Bachelor in Operations is concerned with minimizing the total cost of inventory and transportation. The course covers the fundamental principles of supply chain and inventory management, inventory management measurements and techniques are well explained.

Understanding of these techniques will allow students to grasp the technical details of Supply Chain and Inventory Management and apply it to understand the role of Inventory Management in supporting the supply chain process.

### Programme Objectives

- To develop the operational skills of the candidates.
- How operational activities are used in real life situation.
- To build the leadership skills.
- To adopt various safety measures for safe working environment at the shop floor.
- Develop awareness about environment and the problems associated with it.
- The objective of the course is to have the knowledge about Project Management and ERP systems.

### Programme Learning Outcomes

- Learn Fundamental Principles of Inventory Management with Cost of Inventory
- To understand Product Life Cycle and Forecasting
- To maintain independence of operations by decoupling.
- Work with operations team to solve customer issues (practical)
- Keep immediate work area clean and tidy
- Follow the documentation process as per the company policy and ensure that other subordinates also follow

### Eligibility for Admission

The eligibility for admission to Bachelor in Operations is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*After completing this course, a student will be able to find work at logistics management firms such as supply chain management firms. In the supply chain management firms, one will be able to perform the roles of Logistics Manager, Operations Manager and Assistant Manager.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	OM 1.1	Supply Chain Management	4
	OM 1.2	Maintaining a Safe Workplace	2
	OM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	OM 2.1	Maintenance of Machine	2
	OM 2.2	Quality Management	4
	OM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2

	OM 3.1	Principles of Operations Management	4
	OM 3.2	Shop Floor Practices	2
	OM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	OM 4.1	Basic Operations Research	2
	OM 4.2	Project Management (Basic)	2
	OM 4.3	Environmental Studies	2
	OM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	OM 5.1	Project Management (Advanced)	2
	OM 5.2	Enterprise Resource Planning (ERP)	4
	OM ST5	Skill Training*	12
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	OM 6.1	Introduction to Labour Laws	2
	OM 6.2	Total Productive Maintenance and TQM	4
	OM ST6	Skill Training*	12
	*CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 36,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor in Operations
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Credit Load</b>	132 credits
<b>(d)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(e)</b>	<b>Date on which BoS Approved</b>	26 <sup>th</sup> April 2019
<b>(f)</b>	<b>Date on which AC Approved</b>	16 <sup>th</sup> April, 2019
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# MEDIA AND ENTERTAINMENT SECTOR

## Introduction of the Sector

Media and Entertainment industry is powered by technological pace. No doubt the pace of the technology will be doubled and tripled soon. But the main concern is that there should be industry ready workforce. This skilled workforce is created by skill education and training. It is high time to grab the opportunity.

India has a large broadcasting and distribution industry, comprising approximately 900 satellite TV channels, 6000 Multi-system operators, around 60,000 local cable operators, 7 DTH operators and few IPTV service providers.



## BACHELOR IN GRAPHICS AND MULTIMEDIA

### Programme Introduction

Graphics and Multimedia is the combined use of text, graphics, sound, animation, and video. The primary objective of this programme is to teach the students the basic understanding of multimedia. This course also introduces to the students the basics and foundation of Visual Design and Multimedia Design.



### Programme Objectives

- To know and understand Design Principles
- To have a strong understanding of Multimedia Development
- To know the principles of Graphic Design
- To know and apply basics of 3D Animation
- To understand Web Design
- To know the basics of Digital Video Production

### Programme Learning Outcomes

- Student can understand, interpret and work based on Graphic Visualization Briefs.
- Student has the ability to use and manipulate Graphic Tools and Software.
- Student has the knowledge, skills and understanding through the making of works in design that lead to conceptual and technical accomplishment.
- Student can create lighting for the production, prepare computer generated models, add textures to models and render productions.

- Student is equipped to identify design considerations that are specific to web design, determine the best design tools for specific web design needs and these.
- Student can understand the script, prepare the storyboard, manage the equipment and material and edit the production.

### Eligibility for Admission

The eligibility for admission to Bachelor in Graphics and Multimedia is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*After completing this course, a student will be skilled to work as Executive Producer, Producer/ Project Manager, Creative Writer, Multimedia Designer, Art Director, Visual Designer, Artist, Interface Designer, Subject Matter Expert, Instructional Designer/ Training Specialist, Script Writer, Animator 2D, 3D and Sound Producer.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	MEGM 1.1	Introduction to Multimedia Development	2
	MEGM 1.2	Introduction to Design and Graphic Design	2
	MEGM 1.3	Advanced Graphics Design	2
	MEGM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	MEGM 2.1	Typography	2
	MEGM 2.2	Digital Video - I	2
	MEGM 2.3	Digital Video - II	2
	MEGM ST2	Skill Training*	12
III	GE 3.1	Financial Literacy	2

	GE 3.2	Basics of Legal and HR Policies	2
	MEGM 3.1	Branding and Identity	2
	MEGM 3.2	Modeling and Texturing	2
	MEGM 3.3	Introduction to 3D Animation	2
	MEGM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	MEGM 4.1	Art Direction	2
	MEGM 4.2	Lighting and Rendering	2
	MEGM 4.3	Advanced Animation	2
	MEGM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	MEGM 5.1	Information Design	2
	MEGM 5.2	Motion Graphics - I	2
	MEGM 5.3	Motion Graphics - II	2
	MEGM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	MEGM 6.1	Navigation and Layout	2
	MEGM 6.2	Basics of Web Design	2
	MEGM 6.3	Advanced Web Design	2
	MEGM ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

*Note: Laptop / Desktop is recommended for the programme.*

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor in Graphics and Multimedia
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Greycats,Meta Integrated 360 Media, Wolfx,366 Digitx,infai pixels, Indraprastha It Cell Pvt Ltd.
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	5 <sup>th</sup> Feb 2019. Revision- 6 <sup>th</sup> BoS on 2 <sup>nd</sup> May, 2025
<b>(g)</b>	<b>Date on which AC Approved</b>	27 <sup>th</sup> March, 2019. Revision-14 <sup>th</sup> May, 2025
<b>(h)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# POWER SECTOR

## Introduction of the Sector

Power is the most critical requirement towards the development and social parity of any country. With the increasing focus on Sustainable Development and resulting Sustainable Development Goal it is pertinent to harness the Renewable Sources of the Energy to its fullest. The existing source of power generation are also gradually being converted into more sustainable alternatives, viz., Solar, Wind, Biomass, etc.

India has a vast supply of renewable energy resources, and it has one of the largest programmes in the world for deploying renewable energy products and systems. Newer renewable electricity sources are targeted to grow massively in the coming years. The Government of India estimates a \$100 billion investment, and a strong policy framework to stimulate the immense growth of solar and wind energy markets.

Renewable Energy is generated through various natural resources such as biomass, sun, wind, tides waves and water (hydroelectric power). According to the Renewables 2022 Global Status Report by REN21, energy-policy think tank, India ranks 4th in renewable energy installed capacity (excluding large hydro), 4th in wind power capacity, and 4th in solar power capacity. As a part of the Paris Agreement, the Government of India has set an ambitious target of achieving 175 GW of renewable energy capacity by 2022, and 500 GW by 2030. The awareness for clean energy in domestic and industrial setups with government incentives points to a bright future for trained professionals.



## BACHELOR IN RENEWABLE ENERGY TECHNOLOGY

### Programme Introduction

Bachelor in Renewable Energy deals with each source of renewable energy and the technical aspects associated with them. Let us consider solar energy as an example. The academic programme deals with various aspects of solar energy such as photovoltaic technology, solar power system, solar panels, installation, configuration, cost estimation, etc.



### Eligibility for Admission

The eligibility for admission to Bachelor in Renewable Energy Technology in shall be 10+2 or equivalent OR 10 + ITI (Trade: Wireman, Electrician).

### Programme Objectives

- To equip students with a blend of professional skills and general education.
- To provide flexibility with pre-defined entry and multiple exit points.
- To ensure adequate knowledge and skills, so that students are work ready at each exit point of the programme.
- To enhance employability of the graduates to become a part of the local, national and global workforce through industry-relevant curriculum and skill training.

### Career Prospects/Job Roles

*Various sectors in engineering are electrical, environmental, mechanical, biochemical, IT and more. All types of engineers have a great career in the renewable energy sector as their role is to solve problems and develop new technologies. Some of the prime recruiters are Solar Energy Firms, Wind Energy Technology Firms, Tidal Energy Technology Firms and Equipment Manufacturing Firms.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	RET 1.1	Fundamentals of Solar Energy	2
	RET 1.2	Solar Radiation and Energy Conversion	2
	RET 1.3	Solar Thermal Engineering and Application	2
	RET ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	RET 2.1	Solar Photo Voltaic System and Plants	2
	RET 2.2	Site assessment Array Structural Design	2
	RET 2.3	Solar Energy Storage and Load Management	2
	RET ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
	GE 3.1	Financial Literacy	2

<b>III</b>	GE 3.2	Basics of Legal and HR Policies	2
	RET 3.1	Bio-Gas, Bio-Mass and Bio Fuels	2
	RET 3.2	Environmental Impact Assessment (EIA) Waste to Energy Conversions	2
	RET 3.3	Micro-Hydro Power, Hydrogen Energy and Fuel Cell	2
	RET ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	RET 4.1	Wind Energy Technology and Systems	2
	RET 4.2	Other Renewable Energy Resources	2
	RET 4.3	Solar Architect and Green Concept in building	2
	RET ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	RET 5.1	Power Plant Engineering	2
	RET 5.2	Energy Management Auditing and Energy Conversion	2
	RET 5.3	Economics and Financing of Renewable Energy Systems	2
	RET ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	RET 6.1	Introduction to Energy Financing	2
	RET 6.2	Grid Integration and Distributed Generation of RE	2
	RET 6.3	Operations and Maintenance and plant safety.	2

	RET ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 39,600/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

#### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Renewable Energy Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Tata Power Renewable Energy Ltd., Hogar Technologies Innovations.
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# RETAIL ASSOCIATION SECTOR

## Introduction of the Sector

Retailing is a vital part of the business industry that involves selling products and services to consumers. With the tremendous growth of the economy, retail management has emerged as one of the fastest growing careers in India. The enormous expansion of the sector has thrown up a big demand for skilled professionals in the field. The Indian retail industry has undergone drastic changes with the consumers looking at convenience with multiplicity of choices under one roof. It has generated huge employment opportunities. This has changed the face of retailing in India. As the sector is booming in India, a career in Retail sector has promising growth potential for the ambitious youngsters.



## BACHELOR IN RETAIL MANAGEMENT (THE RETAIL READY PROGRAMME)

### Programme Introduction

A graduate of Bachelor in Retail Management is an all-rounder as far as managing a retail store is concerned. The course envisages to build an overall detailed understanding in the student, in following adequate retail store practices, process management and developing professional and communication skills. Besides, advanced knowledge related to handling of accounts, distribution of products, navigating through e-sales shall be imparted to the learners.

The need for such professionals has been expressed by not only the retail industry employers, but also the consumers of this industry.



### Programme Objectives

- Organize the Store
- Improve Visual Merchandising
- Enable customers make better purchase choices
- Handle payments and voucher records
- Ensure availability of goods
- Resolve customer problems following procedures

### Programme Learning Outcomes

- Display stock to promote sales
- Prepare products for sale
- Promote loyalty schemes to customers
- Monitor and solve service concerns
- Demonstrate products to customers.
- Provide personalized sales and post-sales service support

### Eligibility for Admission

The eligibility condition for admission to Bachelor programme in Retail Management (The Retail Ready Programme) is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Career in retail sector can be developed as Customer Sales Associate, Team Leader, Departmental Manager, Floor Manager, Store Manager, Retail Operations Manager, Retail Buyers and Merchandisers, Visual Merchandisers, Logistic Managers, Warehouse Managers and many more.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	RMRR 1.1	Introduction to Retail Store operations	2
	RMRR 1.2	In-store Cashiering and Merchandising Operations - I	2
	RMRR 1.3	Retail Sales Process Management	2
	RMRR ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	RMRR 2.1	In-store Cashiering and Merchandising Operations - II	2
	RMRR 2.2	Customer Relationship Management	2

	RMRR 2.3	FMCG / FMCD Sales Management	2
	RMRR ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	RMRR 3.1	Consumer Behaviour	2
	RMRR 3.2	Rural Retailing	2
	RMRR 3.3	E commerce and Online Retailing	2
	RM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	RMRR 4.1	Retail Sales and Marketing	2
	RMRR 4.2	Emerging Trends and Technologies in Retail	2
	RMRR 4.3	Safety and Security at Retail Stores	2
	RM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	RMRR 5.1	International Retailing	2
	RMRR 5.2	Managing Store Operations	2
	RMRR 5.3	Team Management	2
	RMRR ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	RMRR 6.1	Legal Aspects in Retail Business	2
	RMRR 6.2	Economics and Sustainability	2
	RMRR 6.3	Role of a Leader at a Retail Store	2

	RMRR ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 52,800/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200 per annum)

**Caution Deposit (Refundable):** Rs. 5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Retail Management (The Retail Ready Programme)
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Trent Limited
(d)	<b>Credit Load</b>	132 credits
(e)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(h)	<b>Certificates Awarded &amp; NSQF/NCrf Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrf Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrf Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrf Level 5.5</li> </ul>

## BACHELOR IN RETAIL MANAGEMENT WITH SPECIALIZATION IN AUTOMOTIVE RETAIL

### Programme Introduction

Bachelor in Retail Management with specialization in Automotive Retail is an undergraduate programme that allows students to acquire excellent technical and soft skills in automobile sales. This unique course enables the students to achieve fast-paced career growth in this industry / sector. The course curriculum covers full spectrum of business processes involved in automobile retail field that allows the students to learn about various aspects of retail business through on-the-job training (OJT) in Automobile showrooms.



### Eligibility for Admission

The eligibility for admission to Bachelor in Retail Management with Specialization in Automotive Retail is 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

*Graduates with specialization in Automotive Retail have the prospects of becoming Customer Sales Associate, Team Leader, Departmental Manager, Floor Manager, Store Manager, Retail Operations Manager, Auto Retailer, etc.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	RMAU 1.1	Introduction to Retail Store Operations	2
	RMAU 1.2	In Store Cashiering and Merchandising Operations - I	2
	RMAU 1.3	Retail Sales Process Management	2
	RMAU ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2

	GE 2.2	Environmental Studies	2
	RMAU 2.1	In Store Cashiering and Merchandising Operations - II	2
	RMAU 2.2	Customer Relationship Management	2
	RMAU 2.3	Basics of Automobile Technologies	2
	RMAU ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>III</b>	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	RMAU 3.1	Business Mathematics for Auto Retail	2
	RMAU 3.2	Consumer Behaviour	2
	RMAU 3.3	Retail Branding	2
	RMAU ST3	Skill Training*	2
	CDPNE	Domain Practicum**	NC
<b>IV</b>	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	RMAU 4.1	Auto Accessories Sales	2
	RMAU 4.2	Rural Retailing	2
	RMAU 4.3	Auto Finance and Auto Insurance Sales	2
	RMAU ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	RMAU 5.1	Legal Aspects of Retail Business and Franchise Management	2
	RMAU 5.2	Institutional Sales	2
	RMAU 5.3	Value Added Services (VAS-showroom hostess, Ambience, Tele-calling, Negotiations, intro of ERP)	2
	RMAU ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC

<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	RMAU 6.1	Preowned Vehicle Sales	2
	RMAU 6.2	Vehicle Maintenance (Service and Sales)	2
	RMAU 6.3	Spare Parts and Inventory Management	2
	RMAU ST6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 48,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

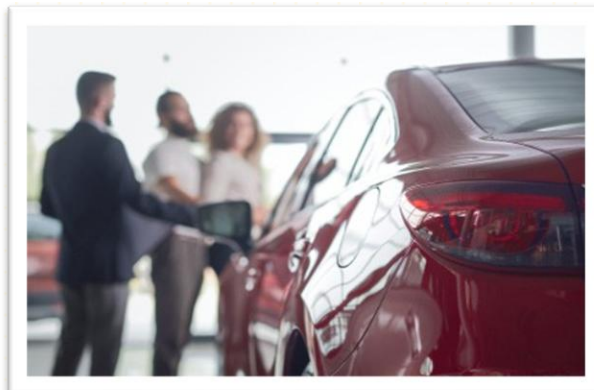
### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	Bachelor In Retail Management with Specialization in Automotive Retail
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	7 <sup>th</sup> June 2021
<b>(g)</b>	<b>Date on which AC Approved</b>	9 <sup>th</sup> June 2021
<b>(h)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

## RETAIL MANAGEMENT WITH SPECIALIZATION IN AUTOMOTIVE RETAIL (in Collaboration with Maruti Suzuki India Ltd.)

### Programme Introduction

Bachelor in Retail Management with specialization in Automotive Retail is an undergraduate programme that allows students to acquire excellent technical and soft skills in automobile sales. This unique course which is designed in collaboration with MSIL will enable the students to achieve fast-paced career growth in the automobile retail industry. The course curriculum covers full spectrum of business processes involved in automobile retail field that allows the students to learn about various aspects of retail business through on-the-job training (OJT) in Maruti Suzuki showrooms. In the first year, students will be required to attend classroom training and in second and third year, they will be required to attend 5 days of OJT per week at Maruti Suzuki Dealership in Mumbai. Students will have an opportunity of 'earning while learning' and get stipend for 24 months starting with Rs. 8000/- per month in the second year and Rs. 9000/- per month in the third year.



### Eligibility for Admission

The eligibility for admission to Bachelor in Retail Management with Specialization in Automotive Retail is 10+2 or equivalent, in any stream.

Preferred Age: 18 years to 22 years.

(Minimum 18 years of age is mandatory during the commencement of OJT in the second year). Admission will be through an 'Aptitude Based Entrance Test' and 'Personal Interview'.

Candidates with good communication skills (elementary knowledge in English) are preferred.

### Career Prospects/Job Roles

*There is placement opportunity at Maruti Suzuki Dealerships and build a fast-paced career in automobile retail. The graduates start career as a Relationship Manager and move up the ladder based on performance. This programme is focused on imparting industry relevant technical and soft skills to the students, making them readily employable in the automobile retail value chain. Other job prospects comprise of Retail Departmental Manager, Retail Store Manager and Visual Merchandiser.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	RMMSIL 1.1	Introduction to Retail Store Operations	2
	RMMSIL 1.2	In-store Cashiering and Merchandising Operations - I	2
	RMMSIL 1.3	Retail Sales Process Management	2
	RMMSIL ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	RMMSIL 2.1	In Store Cashiering and Merchandising Operations - II	2
	RMMSIL 2.2	Customer Relationship Management	2
	RMMSIL 2.3	Basics of Automobile Technologies	2
	RMMSIL ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	RMMSIL 3.1	Business Mathematics for Auto Retail	2
	RMMSIL 3.2	Consumer Behaviour	2
	RMMSIL 3.3	Retail Branding	2
	RMMSIL ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	RMMSIL 4.1	Auto Accessories Sales	2
	RMMSIL 4.2	Rural Retailing	2

	RMMSIL 4.3	Auto Finance and Auto Insurance Sales	2
	RMMSIL ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>V</b>	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	RMMSIL 5.1	Legal Aspects of Retail Business and Franchise Management	2
	RMMSIL 5.2	Institutional Sales	2
	RMMSIL 5.3	Value added Services (VAS-Showroom Hostess, Ambience, Tele-calling, Negotiations, Intro of ERP)	2
	RMMSIL ST 5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
<b>VI</b>	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	RMMSIL 6.1	Pre-owned Vehicle Sales	2
	RMMSIL 6.2	Vehicle Maintenance (Service and Sales)	2
	RMMSIL 6.3	Spare Parts and Inventory Management	2
	RMMSIL ST 6	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 48,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs.3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

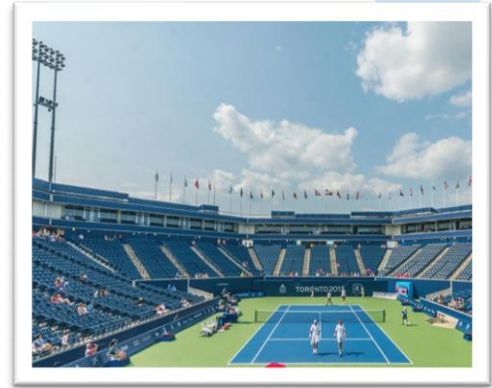
**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Retail Management With Specialization In Automotive Retail (In Collaboration With Maruti Suzuki India Ltd.)
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Maruti Suzuki India Ltd.
<b>(d)</b>	<b>Credit Load</b>	132 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	7 <sup>th</sup> June 2021
<b>(g)</b>	<b>Date on which AC Approved</b>	9 <sup>th</sup> June 2021
<b>(h)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# SPORTS SECTOR

## Introduction of the Sector

The sports sector is a dynamic and vibrant space where people come together to pursue their passions and push their limits. Athletes strive for excellence, coaches motivate, and fans celebrate. From local clubs to international competitions, sports create lasting bonds and unforgettable memories. As the industry advances, it is essential to stay current with cutting-edge technologies and innovative approaches to training and fan engagement. Whether you're an athlete, coach, or fan, the sports sector is a powerful force that inspires talents transforms lives. The sports sector provides a wide range of career opportunities for students in fitness training, coaching various sports and physical education.

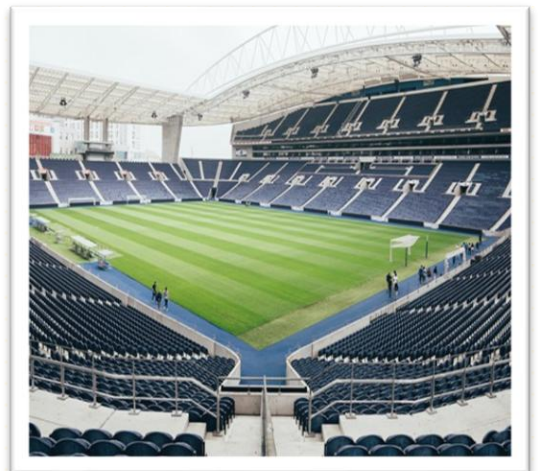


## BACHELOR IN SPORTS MANAGEMENT

### Programme Introduction

The Bachelor in Sports Management Programme aims at creating a strong foundation in various aspects of sports and administration. The programme incorporates the requirements of various sports in an innovative, holistic and flexible manner while developing well- equipped graduates. The syllabus is designed in such a

way that it provides the skill development required to be a professional sports manager. Students benefit from a rich educational experience that equips them to have a successful career in the sports management industry. The objective is to enable the students gain industry relevant knowledge, skill and experience in the field of sports management along with the foundation of Bachelor's level education. The programme is a blend of classroom sessions, industry visits, assignments and master classes conducted by industry experts from respective domains.



### Programme Objectives

- To have a clear understanding of various aspects of sports industry and the key stakeholders in the same and to be able to apply the knowledge at their workplace.
- To become familiar with various roles within a sports organization and dynamics amongst the same.
- To become familiar with key specializations within sports industry and career opportunities within the same.

### **Programme Learning Outcomes**

- To have a clear understanding of sports as a business and various aspects to be managed within the same.
- To be able to manage various functions within a sports organization effectively.
- To be proficient in communication and be able to clearly present analysis, ideas, plans and facts.
- To be able to manage people effectively.
- To have an understanding of various specializations within sports industry as well as allied industries and a working knowledge of each.

### **Eligibility for Admission**

The eligibility for admission to Bachelor in Sports Management is 10+2 or equivalent, in any stream.

### **Career Prospects/Job Roles**

*The programme is tailored for aspirants who wish to establish a successful career in sports management and administration. The Programme focuses on various aspects of sports management and administration as well as the management of sports events, finances and other important avenues of sports. With the growing demand for sports management professionals in India, there is an increase in, but not limited to*

*the following career opportunities:*

- *Coaches*
- *Track and field experts*
- *Sports medicine experts*
- *Trainers*
- *Sports nutrition experts*
- *Sports psychologists*
- *Competition managers*
- *Sports photographers*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	SM 1.1	Introduction to Sports Management	2
	SM 1.2	Sports Governance and Sports Organisations	2
	SM 1.3	Introduction to Sports Marketing (Part 1)	2
	SM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	SM 2.1	Introduction to Sports Marketing (Part 2)	2
	SM 2.2	Sports Finance & Budgeting	2
	SM 2.3	Sports Event Management	2
	SM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Basics of Legal and HR Policies	2
	SM 3.1	Sports Sponsorships	2
	SM 3.2	Business Development	2
	SM 3.3	Partnerships in Sports	2
	SM ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Design Thinking	2
	GE 4.2	Organizational Behaviour	2
	SM 4.1	Fan Engagement	4

	SM 4.2	Sports Operations	2
	SM 4.3	Facility and Infrastructure Management	2
	SM ST4	Skill Training*	12
	CDPNE	Domain Practicum**	NC
V	GE 5.1	Health and Wellness	2
	GE 5.2	Personal Grooming	2
	SM 5.1	Grassroots, S4D and CSR in Sports	2
	SM 5.2	Digital Marketing in Sports	2
	SM 5.3	Sports Law	2
	SM ST5	Skill Training*	12
	CDPNE	Domain Practicum**	NC
VI	GE 6.1	Entrepreneurship	2
	GE 6.2	Employment Readiness	2
	SM 6.1	Special Modules Part I	2
		Media and Broadcasting in Sports	
		Athlete Development and Management	
	SM 6.2	Special Modules Part II	2
		Sports Merchandising and Retail	
		Introduction to Sports Sciences	
		Sports Technology and Data Analytics	
		Esports and Gaming	
	SM 6.3	Special Modules III	2
		Sports Technology and Data Analytics	
		Esports and Gaming	
SM ST6	Skill Training*	12	
*CDPNE	Domain Practicum**	NC	

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** (Rs. 1,20,000/-per annum)

**Examination Fees:** (Rs. 1,600/- per semester and Rs. 3200/- per annum)

**Caution Deposit (Refundable):** Rs.5000/-

**Certification Charges:** Rs. 2500/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Bachelor in Sports Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	India on Track
(c)	<b>Credit Load</b>	118 credits
(d)	<b>Duration/ No. of Semesters</b>	3 Years / 6 Semesters
(e)	<b>Date on which BoS Approved</b>	4th BoS on 4 <sup>th</sup> May 2023
(f)	<b>Date on which AC Approved</b>	4th BoS on 4 <sup>th</sup> May 2023
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Year:</b> UG Certificate at NSQF/NCrF Level 4.5</li> <li>• <b>2<sup>nd</sup> Year:</b> UG Diploma at NSQF/NCrF Level 5</li> <li>• <b>3<sup>rd</sup> Year:</b> Bachelor Degree (Bachelor/BSc) at NSQF/NCrF Level 5.5</li> </ul>

# DIPLOMA PROGRAMMES

## DIPLOMA PROGRAMMES

### Course details

Duration	Semesters	Corresponding NSQF/NCrF Levels	Total Hours/ Credits	Award
1 Year	2	5	1200 hours/40	Diploma Certificate

### Objectives of the Programmes

The main goal is to produce highly efficient professionals with the necessary knowledge, skills and attitude to manage effectively, a wide range of pertinent problems faced in the stream of occupation. All the programmes focus on preparing the students to become familiar with the job roles and industrial working culture/environment by training/skilling them directly in the workplaces of the industries. All the courses taught incorporate specific job roles and their corresponding National Occupational Standards (NOS) which enable the students acquire the desired knowledge and skills to gain appropriate job after the completion of the course. In this way the students will become self-reliant and eventually contribute to the growth of the country's economy. The eligibility criteria are laid out under each of the programmes offered.

## DIPLOMA IN AGRICULTURE AND AGRI INPUT MANAGEMENT

### Programme Introduction

The programme centres around applying monetary hypothesis to address the rural issues that organizations face every day and conjecture the reasonable results of market and government communications. The diploma will encourage learners to pursue administration of agrarian and other land-based organizations and endeavours that go connected at the tip with horticulture. It will enable one to secure the essential information and abilities to turn into an effective chief of a business and build up aptitudes of basic perception and examination through contact with an assortment of intriguing genuine organizations.

Agri Input Dealers in the country are a prime source of farm information to the farming community, besides the supply of inputs and credit. However, majority of these dealers do not have formal agricultural education. In order to build their technical competency in agriculture and to facilitate them to serve the farmers better and to act as para - extension professionals, one-year Diploma course in Agriculture and Agri Input Management is beneficial.

### Eligibility for Admission

The eligibility criteria for admission to Diploma in Agriculture and Agri Input Management is 12th passed or equivalent, in any stream.

### Employability/Skill Enhancement

*The career prospects for students of Diploma in Agriculture and Agri Input Management include Government jobs under the Agriculture Department, Agriculture Sales Officer in Private organizations, Self-employment like starting farm machine shops, repair shops, Poultry Farming, Horticulturist, Professionals in Food production, Agriculture Consultant, Distributor, Researcher and Regional Sales Manager.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DAG 1.1	Basic Horticulture and Introduction to Indian Agriculture	2
	DAG 1.2	Agronomical Principles and Crop Production Practices (Kharif Season)	2
	DAG 1.3	Farm Machinery and Post Harvesting Technology	2

	DAG ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	DAG 2.1	Agronomical Principles and Crop Production Practices (Rabi)	2
	DAG 2.2	Concepts of Soil - Nutrient Management and Diagnosis of Crop Health problems	2
	DAG 2.4	Emerging Concepts and Legislations Related to Agri Input Business Management	2
	DAG ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 30,000/-per annum

**Examination Fees:** Rs.1,600/- per semester and Rs. 3200 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

#### Programme Summary

(a)	<b>Name of the Programme</b>	Diploma in Agriculture and Agri Input Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Krushidham, Green Agrevolution Pvt. Ltd (DeHaat)
(d)	<b>Credit Load</b>	44 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>DAAIM Certificate</b> (NSQF/NCrF Level 5)

## DIPLOMA IN EMERGENCY MEDICAL TECHNICIAN

### Programme Introduction

The course aims at producing an Efficient Medical Resource in the field of Emergency Medical Services with the necessary knowledge, skill and attitude to manage effectively, a wide range of clinical problems in Emergencies.

During Pre Hospital Life Saving Emergencies, timely provision of Medical Aid by such adequately trained and qualified personnel, can spell the difference between life and death. Considering the dearth of such well trained and qualified technicians in this field, Diploma in Emergency Medical Services is formulated. The course will facilitate the learner to acquire Highly Demanding Skills and Competencies to work in the **field** of Pre Hospital Emergency, Accident and Emergency Departments of Hospitals. These acquired skills will not only equip them to assess and efficiently manage Medical and Trauma Emergencies but will also make the learner to work as a team, handle stressful conditions and sharpen his/her decision-making capabilities.

**The broad objective of the** course is to create ready-to-be-employed workforce of Emergency Medical Technicians, who would be:

- Having a sound knowledge of the Basic as well as advanced protocols and procedures of managing Pre Hospital Medical and Trauma Emergencies.
- Qualified, trained and skilled to execute these skills with strict adherence to rules and safety measures and execute all the required procedures with expertise.
- Equipped with the right set of aptitudes and attitudes that would make them all encompassing Emergency Medical Technicians.

### Eligibility for Admission

The candidate should be class XII (Science) pass

### Employability/Skill Enhancement

Pursing the Emergency Medical Technician Diploma will give the learners an upper hand in comparison to others as they will receive additional specialized training that involves the following set of skills:

- To Maintain Patient's Confidentiality.
- Implement Ethics in Special Situations.
- Record Baseline Vital Signs.
- Select Correct Equipment for Lifting and Moving Patients.
- Select Correct Oxygen Equipment.
- Size Up Scene at the site.
- Perform Initial Assessment of the Patient (i.e., Mental Status, Airway Status, Breathing Status, Circulation Status, Identifying Priority Patients).
- Implement On-going Assessment.

### Career Prospects/Job Roles

Depending on a system and its coverage area, career opportunities exist in areas like wilderness EMS, special operations, special events, hazardous materials, industrial safety, quality management and other areas. Emergency Medical Technologists work with other health care professionals, including nurses and physicians, as well as firefighters and police officers.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DEMT 1.1	Introduction to Emergency Medical Care and Airway Management	2
	DEMT 1.2	Patient Assessment & Medical and Behavioral Emergencies	2
	DEMT CR 1	Case Report	2
	DEMS ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	DEMT 2.1	Emergencies in Obstetrics & Gynecology	2
	DEMT 2.2	Operations and Understanding ECG	2
	DEMT CR2	Case Report	2
	DEMT ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Personal Grooming	2
	DEMS 3.1	Trauma Emergencies & Emergencies in Infants & Children	2
	DEMS 3.2	Advanced Airway Elective	2
	DEMS CR 3	Case Report	2
	DEMS ST3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Employment Readiness	2
	GE 4.2	Health and Wellness	2

	DEMS CR 4	Case Report	4
	DEMS ST4	Skill Training*	12
	DEMS P1	Project	2
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 48,000/-per annum

**Examination Fees:** Rs. 1,600/- per semester and Rs. 3200 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Diploma in Emergency Medical Technician
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	88 credits
(d)	<b>Duration/ No. of Semesters</b>	2 Years / 4 Semesters
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>DEMT Certificate</b> (NSQF/NCrF Level 5)

## DIPLOMA IN OPERATION THEATRE TECHNIQUES

### Programme Introduction

The programme aims to produce quality technicians in the field of Operation Theatre. A considerable number of man hours are lost in training the technician to perform tasks appropriately. This also causes financial loss. Considering the dearth of well-trained technicians in this field, Diploma in Operation Theatre Techniques is formulated. The course will train the students in various skills pertaining to operation theatre, so that s/he will be able to carry out various tasks assigned to his/her efficiently. This course will also teach him/her in working in and as a team, handle stressful conditions and sharpen his decision-making capabilities.

### Eligibility for Admission

The candidate should be class XII from science stream.

### Employability/Skill Enhancement

Undergoing the Diploma of OT Techniques will give the learners an upper hand as they will receive the following Additional Specialized Training in the form of skill sets:

- Operation Theatre Set-Up
- Setting Up Trolleys for Various Operatives
- Anesthesia Techniques in OT
- Surgical Equipment Handling and Cleaning of OT
- Pharmacology
- Protocols of OT
- Sterilization and Fumigation of OT
- Emergencies and Casualties in OT

### Career Prospects/Job Roles

*The students who have diploma in OTT get jobs as Lab Technician, Operation Theatre Technician, Anaesthesia Technician, Assistant Operation Theatre Technician and Assistant Lab Technician*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DOTT 1.1	Anatomy	4
	DOTT 1.2	Physiology	2
	DOTT 1.3	General Principles of Hospital Practice and Patient Care	2

	DOTT 1.4	Introduction to Operation Theatre Technology	2
	DOTT ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	DOTT 2.1	Pathology	2
	DOTT 2.2	Surgery - I	2
	DOTT 2.3	Anaesthesia - I	2
	DOTT ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Personal Grooming	2
	DOTT 3.1	Microbiology - Bacteriology and Virology	2
	DOTT 3.2	Surgery - II	2
	DOTT 3.3	Anaesthesia - II	2
	DOTT ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 4.1	Employment Readiness	2
	GE 4.2	Health and Wellness	2
	DOTT CR	Case Report	2
	DOTT P1	Project	4
	DOTT ST 4	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 48,000/-per annum

**Examination Fees:** Rs.1,600/- per semester and Rs. 3200 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Diploma in Operation Theatre Techniques
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Credit Load</b>	88 credits
<b>(d)</b>	<b>Duration/ No. of Semesters</b>	2 Years / 4 Semesters
<b>(e)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>DOTT Certificate</b> (NSQF/NCrF Level 5)

## DIPLOMA IN GERIATRIC CARE

### Programme Introduction

Considering the rising “Geriatric Population” in India, there is an acute need for the individuals who can provide quality care to the geriatric segment. With most of the families going nuclear, the elders are left alone to take care of themselves. This calls for courses such as Diploma in Geriatric Care which will produce quality carers who will provide appropriate service to the elderly population. The course thus aims to produce quality carers who will be able to demonstrate geriatric care, demonstrate understanding of various geriatric health issues, deal with emergencies, communicate well with the service user and the relatives and demonstrate use of geriatric assistance equipment. The diploma is designed for individuals who have not completed higher specialty training as geriatricians, to give recognition to healthcare practitioners who have developed an in-depth critical understanding of the clinical knowledge and skills required in the field of geriatric medicine to provide expert care for older people.

### Eligibility for Admission

The candidate should be a matriculate or 10th pass.

### Employability/Skill Enhancement

This programme will enable the students to have better employment opportunities as they get training assessing condition of the service user, learn various aspects of geriatric care, deal with various emergencies and understand various health issues related to geriatric age group.

### Career Prospects/Job Roles

*Gerontological nurses work in a variety of settings, including acute care hospitals, rehabilitation care, nursing homes, assisted living facilities, retirement homes, community health agencies, and the patient's home. Students get jobs as gerontological nurses and work under various designations, like nurses and nursing assistants, social workers, home health and personal care aides, and community service workers.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DGC 1.1	Basics of Gerontology and Geriatric Care	2
	DGC 1.2	Basic Geriatric Nursing	2
	DGC 1.3	Basic Knowledge of Communication and Medical Technology	2
	DGC ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2

	DGC 2.1	Basic Knowledge of Mobility Aids	2
	DGC 2.2	Psycho social Support for Geriatric Age Group	2
	DGC 2.3	Common Geriatric Issues	2
	DGC ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC
III	GE 3.1	Financial Literacy	2
	GE 3.2	Personal Grooming	2
	DGC 3.1	Emergencies	2
	DGC 3.2	Legal and Financial Support to Geriatric Age Group	2
	DGC P1	Project	2
	DGC ST 3	Skill Training*	12
	CDPNE	Domain Practicum**	NC
IV	GE 6.2	Employment Readiness	2
	GC 4.2	Health and Wellness	2
	DGC CR 1	Case Report	4
	DGC ST 4	Skill Training*	12
	DGC P2	Project	2
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 24,000/-per annum

**Examination Fees:** Rs.1,600/- per semester and Rs. 3200 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Diploma in Geriatric Care
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	88 credits
(d)	<b>Duration/ No. of Semesters</b>	2 Years / 4 Semesters
(e)	<b>Certificates Awarded &amp; NSQF/NCrf Level</b>	<b>DGC Certificate (NSQF/NCrf Level 5)</b>

## DIPLOMA IN COMPUTER APPLICATIONS

### Programme Introduction

The Diploma program aims at training candidates for the job of Help desk Executive, Service Desk Executive, Technology Support Executive, IT Support Executive, and Help desk Coordinator in IT and ITES sector. The course will deal with basic windows OS operation and management, working in and as a team, handle extremely stressful conditions and sharpen the decision-making capabilities.

The Diploma programme will provide a platform for learners to start working in key areas of Industry.

It helps in developing Basic computer skills in the students. It will provide an exposure of the IT Environment. The programme will help in Learning Practical knowledge about computer and will make the candidate job ready for IT Industry.

**The broad objective of the course** is to create ready-to-be-employed workforce of computer technicians, who would be:

1. Having a sound knowledge of the basic protocols and procedures of functioning of the hard disc.
2. Trained and skilled to execute the activities with strict adherence to rules and safety measures and execute the procedures with expertise

### Eligibility for Admission

The candidate should be class XII (Science) pass.

### Employability/Skill Enhancement

This Diploma in Computer Applications programme will give the students an upper hand in as they will receive the following additional specialized training:

- Basic understanding of computer and its terminology
- To Manage co-ordinate and resolve incidents as quickly as possible at primary support level
- To deal with basic service requests and incidents at the IT help desk
- To build and maintain positive and effective relationships with customers
- Problem-solving approaches in different situations
- To plan and organize work in order to complete it to the required standards on time.
- Analyze inputs from appropriate people to identify, resolve and record design defects and inform future designs
- Develop basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD
- Review codes and UTCs and execute UTCs for documenting results.

### Career Prospects/Job Roles

*Starting from networking and internetworking fields to the software designing industry, a DCA pass out can get placed in any position like computer operator, software designer, basic programmer and basic code designer.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	GE 1.1	Functional English	2
	GE 1.2	Computing Skills and Digital Literacy	2
	DCA 1.1	Fundamentals of Computers and Operating Systems	2
	DCA 1.2	Web Designing	2
	DCA 1.3	Programming in Python	2
	DCA ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	GE 2.1	Communication Skills	2
	GE 2.2	Environmental Studies	2
	DCA 2.1	Programming With Visual, Basic.Net	2
	DCA 2.2	Desktop Publishing with Adobe Illustrator	2
	DCA 2.3	Internet and Web Technology	2
	DCA ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

*Note: Laptop / Desktop is recommended for the programme.*

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 36,000/- per annum

**Examination Fees:** Rs.1,600/- per semester and Rs. 3200/- per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Diploma in Computer Applications
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	44 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Certificate Awarded &amp; NSQF/NCrF Level</b>	<b>DCA Certificate (NSQF/NCrF Level 5)</b>

# POST GRADUATE DIPLOMA PROGRAMMES

## POST GRADUATE DIPLOMA PROGRAMMES

All the PG Diploma programmes offered incorporate specific job roles and their corresponding National Occupational Standards (NOS). This would enable the graduates acquire the desired knowledge and skills, gain appropriate employment, or become entrepreneurs in their fields of interest/expertise. In this way the students will become self-reliant and subsequently participate/contribute in accelerating the growth of our country's economy.

### Main Objective of the Programmes

The main goal of the Post Graduate Diploma programme is to produce highly efficient professionals with the necessary knowledge, skills and attitude to manage effectively, a wide range of pertinent problems faced in the stream of occupation. All the programmes aim to prepare the students to become familiar with the job roles and industrial working culture/environment by training/skilling them directly in the workplaces of the industries. The eligibility criteria have been laid out under each of the programmes offered.

### Course Details

Duration	Semesters	Corresponding NCrF Levels*	Total Yearly Learning Hours / Credits	Award
1 Year/ 2 Years	2/4	6 / 6.5	1200 hours/ 40-48 Credits	Post-Graduate Diploma Certificate

The Post-Graduate Diploma Programmes are for a duration of 1 year running across 2 semesters. The total annual learning hours is 1200 hours and total credits is 40 credits.

\*The students can gain/receive the Post Graduate Diploma at the following two levels of the National Credit Framework (NCrF):

- Students pursuing the PGD programme after 3-year Bachelor's degree/ 2 semesters of the 2-year Master's degree programme will be awarded the PG Diploma at National Credit Framework (NCrF) Level 6.
- Students pursuing the PGD programme after 4-year bachelor's degree will be awarded the PG Diploma at National Credit Framework (NCrF) Level 6.5 (Table 5 (C-1: Sr. No.5); page 50: NCrF, April 2023:).

# AGRICULTURE SECTOR

## Introduction of the Sector

Agriculture is one of the most vital skill sectors accounting for 18% of the Indian economy. It accounts for the livelihood of almost 58% of the Indian population. India being the leading producer of pulses, rice, wheat, spices, and spice products is one of the major players in agriculture sector. Furthermore, with the numerous government policies in place, the agriculture sector continues to show healthy symptoms and steadily climbing through the charts in green. Indian Agriculture sector contributes around 23% of the GDP. It provides employment to more than 65% of the population. The sector is facing an increasing complex business environment due to integration of world market, technological advancement, development of the derivative market, etc. To cater to this complexity skilled manpower is required to respond to the current situation and take quick and right decision.

## POST GRADUATE DIPLOMA IN AGRIBUSINESS MANAGEMENT

### Programme Introduction

PG Diploma in Agri Business Management aids to skill graduates on Agri business management for managerial position in Agriculture and Allied Industries.

The course will teach the students in working in and as a team, handle extremely stressful conditions and sharpen their decision-making capabilities in the field of agriculture.

The broad objective of the course is to create ready-to-be-employed workforce of Agri business professionals, who would be:

- Having a sound knowledge of the basic protocols and procedures of functioning of Agri business industries.
- Equipped with the right set of aptitudes and attitudes that would make them all encompassing Agri Business Managers.

**Rationale and feasibility of the programme:** The course would create ready-to-be-employed workforce of Agri business professionals, who would be-

- Having a sound knowledge of the basic protocols and procedures of functioning of agri business industries.
- Equipped with the right set of aptitudes and attitudes that would make them all encompassing Agri Business Managers

### Eligibility for Admission

The candidate should be a graduate in any discipline. Students with graduation in agriculture and allied sector are desirable.

### Employability/Skill Enhancement

Undergoing the PG Diploma in Agri Business Management will give the students an upper hand in comparison to others as they will receive the following additional specialized training:

- Awareness about agriculture and allied sector.
- Adaptability to the dynamic market forces and facing competition.
- Special training in exports, dairy and food technology.
- Ability to assist effectively in managerial decision making.
- Ability to work independently and lead teams.
- Effective handling of assigned tasks.
- Awareness regarding various techniques in agriculture and allied industries.

### Career Prospects/Job Role

*Agriculture domain is capable of generating an abundant amount of job opportunities and different job profiles every year. The students with Post Graduate Diploma in Agri Business Management can procure jobs in managerial positions in Food Production Companies, Food Processing Companies, Farming Industries, Farming Equipment Manufacturing Industries, Agro-chemical Industries in both Public and Private Sectors. Marketing Industries and Retail Industries.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	ABM 1.1	Agri Business Management	2
	ABM 1.2	Food Technology and Processing Management	2
	ABM 1.3	Dairy Technology and Management	2
	ABM 1.4	Agriculture Supply Chain Management	2
	ABM 1.5	Marketing Research in Agri Business	2
	ABM P1	Domain Project	2
	ABM ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	ABM 2.1	Sales and Distribution	2
	ABM 2.2	Advance Agriculture Export	2
	ABM 2.3	Costing and Financial Management	2
	ABM 2.4	Rural Marketing	2
	ABM 2.5	Agricultural Economics	2
	ABM P2	Domain Project	2
	ABM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 84,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Postgraduate Diploma in Agribusiness Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	48 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDABM Certificate (NSQF/NCrF Level 6)</b>

## Introduction of the Sector

Banking, Financial Services and Insurance (BFSI) are set to grow exponentially in India due to the rising per capita income, the introduction of new products, innovation in technology, expanding distribution, networking and increasing customer awareness of financial products. BFSI Industry has continued to be a top priority focus industry for India's economic development based on inclusive growth.



## POST GRADUATE DIPLOMA IN BANKING, FINANCIAL MARKETS AND INSURANCE

### Programme Introduction

The programme aims to train the students in various aspects related to banking and its allied areas. The programme covers topics such as banking, finance, insurance, investment, risk management, and more. Banking sector is growing at a healthy pace in India. This sector is known to generate ample amount of job.

### Rationale and feasibility of the programme

- To gain a basic understanding of the Corporate banking systems, Financial Markets, financial products and services, International Trade, Credit process, accounting process and risk management
- To learn about corporate relationship management, marketing plan and Insurance norms
- To apply the knowledge of legal aspects of lending, insurance and CIBIL. Also appraise MFIs-SHG's.
- To project the financial statement and future values and manage retail products
- To apply the knowledge of Risk Management in Financial Services
- To gain basic knowledge of credit, forex, treasury and risk management in corporate banking systems

### **Eligibility for Admission**

The candidate should be a graduate (preferably commerce) from a recognized university in India or abroad.

### **Employability/Skill Enhancement**

Undergoing the Banking, Financial Markets and Insurance diploma will give the students an upper hand in comparison to others, as they will receive additional specialized training as follows:

- Awareness on the functioning of Banks, Financial Markets and Insurance Companies
- Skill Training\* in Banking and Insurance operations
- Ability to assist effectively in processing financial transaction in different fields
- Ability to observe and analyze financial data
- Ability to determine the different kinds of facilities that would be required by customers.
- Effective handling of customer requests and queries
- Awareness regarding various techniques used in financial analysis

### **Career Prospects/Job Role**

*Post Graduate Diploma in Banking Financial Markets and Insurance course equips the candidates to function within changing financial conditions and develop already existing skills in the area of Banking and Finance. This course helps to develop cognitive, critical and intellectual as well as research skills to understand how domestic and international banking systems work.*

*Candidates with PGDBFMI can be easily employed in Corporate Banks, Financial Sector, Banking Sector, and Educational Institutes, etc. They hold positions like Business Analyst, Loan Counsellor, Investment Banker, Finance Manager, Equity Research Analyst, Market Analyst, and Personal Financial Advisor.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	BFMI 1.1	Finance and Bank Accounting	3
	BFMI 1.2	General and Retail Banking	3
	BFMI 1.3	Advanced Corporate Banking	3
	BFMI 1.4	Priority Sector Banking	3
	BFMI P1	Domain Project	2
	BFMI ST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	BFMI 2.1	Indian Financial Markets	4
	BFMI 2.2	Insurance Services in India	4
	BFMI 2.3	Financial Services Marketing	4
	BFMI P2	Domain Project	2
	BFMI ST2	Skill Training*	10
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 96,000/-per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Post Graduate Diploma in Banking, Financial Markets and Insurance
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Capita India Pvt Ltd, BFSI Sectors Skill Council
<b>(d)</b>	<b>Credit Load</b>	48 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDBFMI Certificates</b> (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN MARKETS, BANKING AND OPERATIONS

### Programme Introduction

Post Graduate Diploma in Markets, Banking and Operations aims to train the students in various aspects related to banking and its allied areas. The program covers topics such as Markets, Banking, risk management, and operations. Banking sector is growing at a healthy pace in India and consequently will generate ample amount of job.

### Rationale and feasibility of the programme

- To enhance students' knowledge and skills in managing Banking, Financial Markets & Mutual Fund businesses.
- To get hands-on experience in dealing with customer transactions in these financial sector areas.
- This course will also teach them to work in and as a team, handle extremely stressful conditions and sharpen their decision-making capabilities.

**The broad objective of the programme** is to create ready-to-be-employed workforce of Financial Market professionals, who would be:

- Having a sound knowledge of the basics of Banking, Financial Markets & Mutual Fund domain.
- Trained and skilled to carry out transaction processing with strict adherence to policies and procedures.
- Equipped with the right set of aptitude and attitude that would make them all encompassing Finance Industry professionals.

### Eligibility for Admission

The candidate should be a graduate (preferably commerce) from a recognized university in India or abroad.

### Employability/Skill Enhancement

Undergoing the Markets, Banking and Operations Diploma will give the students an upper hand in comparison to others, as they will receive additional specialized training in specific skill sets, as follows:

- Awareness on the functioning of Banks, Financial Markets and Mutual Funds
- Skill Training\* in Banking and Financial Market operations
- Ability to assist effectively in processing financial transactions in different fields
- Ability to observe and analyze financial data
- Ability to determine the different kinds of facilities that would be required by customers
- Effective handling of customer' requests and queries
- Awareness regarding various techniques used in financial analysis

### Career Prospects/Job Roles

*This programme enhances the skills of the candidates in the areas of Financial Accounts, Customer Behaviour, Effective Business Communication, Investment Banking, Products and Procedures and Banking Services, etc. Candidates with the PGDMBO get coveted positions in private as well as government banks as Financial Consultant, Financial Analyst and Customer Relations.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	MBO 1.1	Indian Financial Markets & Securities	4
	MBO 1.2	Mutual Funds & Fund Operations	3
	MBO 1.3	Principles of Financial Accounting	3
	MBO P1	Domain Project	2
	MBO ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	MBO 2.1	Banking Products and Operations	4
	MBO 2.2	Financial Securities Operations	3
	MBO 2.3	Financial Services Marketing	3
	MBO 2.4	Domain Project	2
	MBO P2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 96,000/-per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Markets, Banking and Operations
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	48 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Certificate Awarded &amp; NSQF/NCrF Level</b>	<b>PGDMBO Certificate</b> (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN BANK CREDIT MANAGEMENT

### Programme Introduction

Post Graduate Diploma in Bank Credit Management aims to train the students in various aspects related to banking and its allied areas. The programme covers topics such as Banking, Credit management, and operations. Banking sector is growing at a healthy pace in India. Consequently, the sector will generate ample amount of job.

### Rationale and feasibility of the programme

- To gain a basic understanding of the banking systems, financial products and services, International Trade, Credit process, accounting process and risk management
- To learn about corporate relationship management, marketing plan and BASEL norms
- To apply the knowledge of legal aspects of lending and CIBIL and manage credit.
- To project the financial statement and future values and manage product portfolios
- To apply the knowledge of Risk Management in Financial Services
- To gain basic knowledge of credit, forex, treasury and risk management in corporate banking systems

### Eligibility for Admission

The candidate should be graduate (preferably commerce) from a recognized University in India or abroad.

### Employability/Skill Enhancement

Undergoing the Bank Credit Management diploma will give the students an upper hand in comparison to others as they will receive additional specialized training as follows:

- Awareness of Bank's functioning
- Skill Training\* in Credit Analysis
- Ability to assist effectively in processing credit proposals
- Ability to observe and analyze financial data
- Ability to determine whether to lend to a customer
- Effective handling of customers' requests and queries
- Awareness regarding various techniques used in financial analysis
- Understanding and active participation Credit appraisal and loan processing

### Career Prospects/Job Roles

After completing the PGD in Bank Credit Management the students get an opportunity to hold positions as like Business Analyst, Loan Counsellor, Investment Banker, Finance Manager, Equity Research Analyst, Market Analyst, and Personal Financial Advisor.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	BCM 1.1	Advanced Corporate Banking	3
	BCM 1.2	Financial and Bank Accounting	3
	BCM 1.3	Financial Analysis for Lending	4
	BCM PR1	Project Report - Financial Modelling using MS Excel	2
	BCM ST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	BCM 2.1	Banking Advances and Operations	4
	BCM 2.2	Loan Monitoring and Review	3
	BCM 2.3	Banking and Credit Management: A Risk Management Perspective	3
	BCM 2.4	Financial Services Marketing	4
	BCM PR2	Project Report – Applied Financial Analysis	2
	BCM ST2	Skill Training*	10

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 96,000/-per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Bank Credit Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	48 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDBCM Certificate (NSQF/NCrF Level 6)</b>

# CHILD CARE SECTOR

## Introduction of the Sector

Child care is a broad area that covers a wide spectrum of professionals, institutions, contexts, activities, social, and cultural conventions. The sector covers two components early child development and child protection.



## POST GRADUATE DIPLOMA IN EARLY CHILDHOOD DEVELOPMENT AND EDUCATION

### Programme Introduction

There is an acute shortage of professionally trained personnel to provide comprehensive services to children in difficult circumstances. There are a large number of personnel working in existing institutions, whether run by government or by non-governmental organizations, who need to be provided with adequate skills and hands-on experiences for dealing with children in an effective manner and providing them quality services.

The cadre prepared through this course will contribute to the Ministry of Women and Child Development's plans to holistically examine methods of rationalizing programmes and approaches for creating a strong protective environment for children, diversify and provide essential services for children, mobilize inter- sectoral response for strengthening child protection and set standards for care and services.

The importance of early care and education for children's lifelong learning has been widely established and acknowledged. The early childhood period, spanning from pre-natal to 8 years, is the most critical and sensitive period in the life span of an individual as it coincides with phenomenal brain development. Children's exposure to quality experience in the early years of life is critical to their development and learning outcomes.

### Rationale and feasibility of the programme

There is a need for initiating the Post Graduate Diploma in Early childhood care and development which is rigorous, sound and can respond to the challenge of preparing a competent workforce for a range of programmes for young children. This programme aims to provide much needed workforce that can serve preschool as well as other ECDE programmes/centres catering to young children and their development focusing on-

- Expanding knowledge and skills of the students/trainees to enable them to work with children up to eight years of age (0 to 8).
- Equipping them with specific competencies related to core elements/concepts of child development as also emerging from job description and requirements of a range of programmes for children.

The programme is planned in such a way that a higher level subject matter and skills can be appropriately developed in a span of one year. After graduation a candidate has reached a stage of educational maturity wherein s/he is equipped to learn and absorb more complex level of concepts and competencies. Also is able to develop a good perspective on educational status and issues in India. The postgraduate students are expected to be able to develop professional approach regarding their roles and responsibilities, ethics and rights of the children. The programme comprises a judicious balance of theoretical knowledge and field application with a focus on equipping students with appropriate competencies for planning, implementing and assessing a range of programmes for young children.

### **Eligibility for Admission**

The candidate should be a graduate in any discipline.

### **Employability/Skill Enhancement**

Undergoing the PG Diploma in Early Childhood Development and Education will give the students an upper hand in comparison to others as they will receive additional specialized training as follows:

- Awareness of government programmes/schemes for young children's holistic development.
- Adaptability to Early Childhood Care education and development settings.
- Special training in execution of programmes and government schemes for young children's holistic development effectively.
- Ability to function effectively as teachers of Anganwadi centre, private pre-schools and play schools as well as voluntary sectors.
- Understanding of pre-school as well as other ECCE programmes/centers catering to young children and their development.
- Ability to develop professional approach regarding their roles and responsibilities, ethics and rights of the children.
- Ability to administer plans and practices related to children's development, behavior and learning needs.
- Training for Reflective practice and becoming a reflective practitioner.
- Ability to learn practical application of knowledge related to children's development.
- Awareness regarding various techniques of professional development programmes that exist for teachers of Anganwadi centres, private and voluntary sectors.

### Career Prospects/Job Roles

The job options for a student with Post Graduate Diploma in Early Childhood and Development is specialised because it is a coveted course which only focuses on early childhood education. Due to this, job options are restricted to teaching areas like Schools, Anganwadis, Pre-Schools, Tuitions, Day Care Centres, etc. The job profiles also range from being an elementary teacher, curriculum designer and academic coordinator.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	ECDE 1.1	Child Development	2
	ECDE 1.2	Teaching Learning Strategies	2
	ECDE 1.3	Activities and experiences for Children	2
	ECDE 1.4	Curriculum Planning and Implementation	2
	ECDE 1.5	Health, Hygiene and Safety	2
	ECDE 1.6	Rights of Children: Implications for ECCE Practice	2
	ECDE ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	ECDE 2.1	Introduction to Children with Special Needs	2
	ECDE 2.2	Assessment of ECCE Programmes	2
	ECDE 2.3	Partnering with Parents and Community	2
	ECDE 2.4	Personal and Professional Development	2
	ECDE 2.5	Organization, Management and Leadership	2
	ECDE 2.6	Guiding Children in Contemporary Context	3
	ECDE P2	Project	2
	ECDE ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 84,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Post Graduate Diploma in Early Child Development and Education
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Credit Load</b>	51 credits
<b>(d)</b>	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
<b>(e)</b>	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
<b>(f)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDECDE Certificate</b> (NSQF/NCrF Level 6)

# HEALTHCARE SECTOR

## Introduction of the Sector

Health Care comprising of hospitals, medical devices, clinical trials, outsourcing, telemedicine, medical tourism, health insurance and medical equipment has become one of India's largest sectors – both in terms of revenue and employment. With increased awareness about health, domestic healthcare, medical tourism and health insurance markets are gaining momentum, offering opportunities for trained personnel.



## POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

### Programme Introduction

A Post Graduate Diploma in Medical Laboratory Technology is a programme that envisages to build in an overall expertise in the student, to perform lab services including special tests. The students would be capable of performing a range of tests such as those related to clinical biochemistry, haematology, serology, cytogenetics in an emergency situation.

### Rationale and feasibility of the programme

The Course would be to create Ready-to-Be-Employed Workforce of Lab Technicians, who would be:

- Having a Sound knowledge of all the Essential Protocols and Procedures involved in Functioning of a Medical/Pathology Lab.
- Trained and Skilled to execute the Activities in the Pathology Laboratory with Strict Adherence to Rules and Safety Measures and Execute the Procedures with Expertise.
- Equipped with the Right Set of Aptitudes and Attitudes that would make them all encompassing Lab Technician.

### Eligibility for Admission

The eligibility criteria for the PG Diploma in Medical Laboratory Technology is a qualified graduate holding a degree in Science/Applied Science/ Bachelor in Medical Laboratory Technology from any University of repute.

### Career Prospects/Job Roles

*Once the student completes the course, he/she will be able to work in various pathology laboratories, hospitals as Lab Technician, Senior Lab Technician, Medical Lab Technician, Lab Technician, Lab Manager based on the experience.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	PGDMLT 1.1	Anatomy	2
	PGDMLT 1.2	Physiology and Laboratory Basics	2
	PGDMLT 1.3	Phlebotomy and Waste Management	2
	PGDMLT 1.4	Biochemistry and Lab Ethics	3
	PGDMLT 1.5	Haematology and Immunology	4
	PGDMLT 1.6	Parasitology and Toxicology	3
	PGDMLT P1	Project	4
	PGDMLT ST 1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	PGDMLT 2.1	Clinical Pathology	2
	PGDMLT 2.2	Bacteriology, Mycology and Histopathology	2
	PGDMLT 2.3	Virology	2
	PGDMLT 2.4	Endocrinology and Blood Banking	2
	PGDMLT 2.5	Molecular Biology	2
	PGDMLT 2.6	Operational Management	2
	PGDMLT P2	Project	2

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,20,000/- per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

## Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Medical Laboratory Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Varadvinayak Multispeciality, Metropolis Healthcare Lab, Right Care Pathology, Suburban Diagnostics, Tesla Hi Tech Diagnostic
(d)	<b>Credit Load</b>	54 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(f)	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July 2019
(g)	<b>Date on which AC Approved</b>	19 <sup>th</sup> July 2019
(h)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDMLT Certificate</b> (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN EMERGENCY MEDICAL SERVICES

### Programme Introduction

A Post Graduate Diploma in Emergency Medical Services (PGDEMS) is a programme that envisages to build an overall expertise of medical professionals, in attending medical emergencies. The main goal of the programme is to produce highly efficient medical resource with the necessary knowledge, skill and attitude to manage a wide range of clinical problems in emergencies. Special emphasis is placed on the relatively common emergencies. The participants will be updated about all the current protocols in diagnosing and treatment of all medical and surgical emergencies.

As a result of training in this course, the medical professional would become competent in life saving emergency interventions during Pre Hospital Emergency Care efficiently and promptly to save the critically ill patient within the golden hour that is most required.

On successful completion of the course the participant will be prepared to act as first responder in an event of mass disaster and provide medical relief in prehospital settings, will have highly demanding skills and competencies to work in the field of Prehospital Emergency and Accident and Emergency Departments of Hospitals. The versatile nature of training also makes a candidate the choice for employment in 'A&E' room of a hospital, EMS systems, and On-site clinics of the factories and off shore installations.

The course lays foundation for diverse kinds of skills and competencies relevant for the specific job-role. The course is designed as per standards set by industry.

### Introduction and Course Objectives

The main goal of the **1-year** Post Graduate Diploma in Emergency Medical Services Course (PGDEMS) is to produce highly efficient medical resource with the necessary knowledge, skill and attitude to manage in an effective manner, a wide range of clinical problems in Emergencies. Special emphasis is placed on the relatively common emergencies & train them for clinical skills, required to manage them at utmost importance.

Through training undertaken in this course, the medical professional would become competent in life saving emergency interventions during Pre Hospital Emergency Care efficiently & promptly to save the critically ill patient within the golden hour that is most required. The skills acquired during the course equip students to assess and manage medical and trauma emergencies at the pre-hospital and emergency department level. The versatile nature of training also makes a candidate of choice for employment in 'A&E' room of a hospital, EMS systems, and On-site clinics of the factories and off shore installations.

### Eligibility for Admission

The candidate should have completed graduation in one of the following degree courses: MBBS/BHMS/BAMS/BUMS/BDS/ B.Sc. (Nursing)/ B.Voc. in EMS, BPMT (Anaesthesia), BPMT (EMS) or equivalent.

### Employability/Skill Enhancement

- Students will be skillfully trained and will have an upper hand in:
- Awareness of entire skill set required in Pre- Hospital Medical and Traumatic Emergencies.
- Adaptability to efficiently deliver emergency care, work and operate emergency medical services.
- Special training in handling Airway, Breathing, Circulation and Deformity
- Ability to assist Emergency Physicians effectively in entire spectrum of pre-hospital emergencies and emergency room patient care.
- Understanding of careful handling of medical and traumatic emergencies in adults, children and infants.
- Ability to observe and deliver emergency care as per the standard prehospital care protocols.
- Ability to administer efficient emergency care on the streets, patients' home and Emergency Departments of the Hospitals.
- Training in administering life-saving medication under the guidance of the Emergency Physician or Medical Director of the EMS System.
- Ability to work in EMS systems.
- Effective handling of Ambulance operations.
- Awareness regarding various techniques in managing the Airway, Breathing, Circulation, Defibrillation, Lifts and Carrying the patient, routes of administration of medications, bandaging and splinting and other lifesaving medical and surgical interventions.

### Career Prospects/Job Roles

*The students with PG Diploma in Emergency Medical Services have wide avenues open. They have many employment opportunities in provincial emergency and rescue services, private emergency services, the mining industry, as well as international occupational health, safety and emergency services. They get placed as Clinical Investigator, Clinical Research Physician, Medical Coordinator, Quality Analyst, Scientific Affairs Medical Advisor, Strategy Manager, Surgery Coder and Technology Analyst.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE NAME	CREDITS
I	PGDEMS 1.1	Patient Assessment and Airway Management - I	7
	PGDEMS 1.2	Pharmacology and Trauma management	7
	PGDEMS SL1	Practical Skill Lab	10
	CDPNE	Domain Practicum**	NC
II	PGDEMS 2.1	Medical Emergencies Management	2
	PGDEMS 2.2	Special Patient Population and Operations	2
	PGDEMS SL2	Practical Skill Lab	4
	PGDEMS P1	Project	4
	PGDEMS ST1	Skill Training*	12

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/ project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,20,000/-per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Emergency Medical Services
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	48 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDEMS Certificate</b> (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN DIALYSIS TECHNOLOGY

### Programme Introduction

Post Graduate Diploma in Dialysis Technology specifically aims at those pursuing a professional career in Dialysis Technology. It is designed to provide specialized training both in basic scientific principles of modern Dialysis Technology and in the application of these principles.

### Eligibility for Admission

Following will be the criteria for selection of the candidates:

- Bachelor's Degree in Science
- BSc. Nursing.
- B.Voc. in Dialysis Technology
- BSc in Dialysis Technology.

### Employability/Skill Enhancement

Considering the rigorous, work integrated education and training/skilling process that the SSE students undergo the industry are oftentimes open to employ the students attached with them as full-time employees.

### Career Prospects/Job Roles

*Dialysis Technologist can function as Dialysis Technician, Research Assistant or Lecturers. They could also be employed in the technical line of dialysis equipment repair and maintenance. The professionals will be able to provide high standards of care to patients who have chronic kidney diseases. They get mastery in renal replacement therapy and expertise to bring forth new ideas in the field of renal dialysis.*

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDDT 1.1	Fundamental of Dialysis Technology	2
	PGDDT 1.2	Technical aspect of Dialysis Technology	2
	PGDDT 1.3	Applied Dialysis Technology	2
	PGDDT1.4	Fundamentals of Management	2
	PGDD ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	PGDDT 2.1	Clinical Dialysis	2
	PGDDT 2.2	Research Methodology	2
	PGDDT 2.3	Technical aspect of Dialysis Technology II	2

	PGDDT 2.4	Advance Dialysis	2
	PGDCCT ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrf, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 84,000/-per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Dialysis Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	46 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(e)	<b>Date on which BoS Approved</b>	8 <sup>th</sup> July, 2019
(g)	<b>Certificates Awarded &amp; NSQF/NCrf Level</b>	<b>PGDDT Certificate (NSQF/NCrf Level 6)</b>

## POST GRADUATE DIPLOMA IN ADVANCED HISTOTECHNOLOGY AND CYTOTECHNOLOGY

### Programme Introduction

Histotechnology is highly demanding especially in the context of cancer diagnosis. Although informal short-term training is available, a structured training course is lacking. Diploma courses in medical laboratory technology offer a very cursory introduction to the subject with little or no practical training. Moreover, the theoretical underpinnings of the specialty are under emphasized. A specialized Histotechnology course conducted by a dedicated histopathology laboratory is the need of the hour.

Cytotechnology is the microscopic study of body cells to detect cancer, viral and bacterial infections, and other abnormal conditions. Cytotechnologists usually work closely with a pathologist.

### Programme Objectives

- Prepare the students to independently organize and manage a histopathology laboratory with all necessary infrastructure.
- At the end of the training the students should be able to process tissues independently, cut sections and stain them by the routine haematoxylin and eosin staining procedure and be able to do the most commonly used special staining techniques wherever required. They will be confident of performing IHC and other histology related techniques.
- The students should also be acquainted with quality procedures, and be able to prevent and rectify problems if they should arise. They should also be familiar with quality assurance standards that pertain in this country.
- The objective of cytotechnology is to centralize information on both the infrastructure of cell technology and the applied use of cell cultures to generate a better understanding of the many facets and disciplines needed to develop successful cell culture process.

### Eligibility for Admission

The candidate should have completed BSc (Life Sciences/Microbiology/Biosciences/Chemistry with Biology + MLT, BSc. MLT, MSc MLT and B.Voc. MLT)

### Career Prospects/Job Roles

*The career prospect for a histotechnologist is in large hospitals, major pathology laboratories where a histopathology division is functional. Other avenues are veterinary services, private research labs, pharmaceutical companies, research organisations, and forensic labs. Employment opportunities abroad are also bright.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDHC 1.1	Basics of Tissue Processing - I	3
	PGDHC 1.2	Microtomy and Basic Chemistry	3
	PGDHC P1	Project	4
	PGDHC ST 1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	PGDHC 2.1	Frozen Section and Enzyme Histochemistry	3
	PGDHC 2.2	Cytology, Molecular Pathology and Quality Control	3
	PGDHC P2	Project	4
	PGDHC ST 2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,08,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Histotechnology and Cytotechnology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	44 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(g)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDHC Certificate (NSQF/NCrF Level 6)</b>

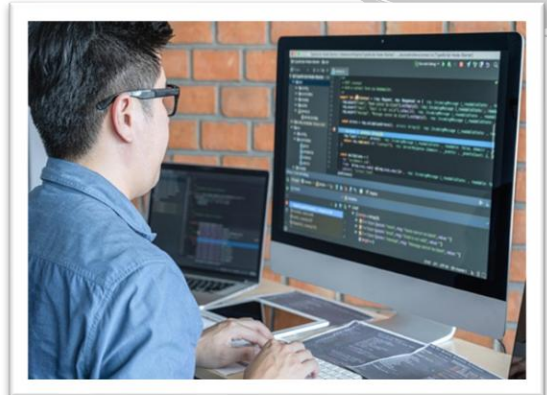
## Introduction of the Sector

In today's digital era Information and Communication Technology have become one of the basic requirements of society. It is difficult to think of any event without the use of digital devices. ITeS sector includes IT services, engineering design,

R & D services and BPO services.

IT includes a wide variety of operations that uses information technology to improve the efficiency of any organization. ITeS services are delivered over

telecom or data network to a range of external business areas. The changing economic and business conditions, rapid technological innovation, the proliferation of the internet and globalization are creating an increasingly competitive environment. The role of technology has evolved from supporting corporations to transforming them. All these factors have made IT-ITeS a competent vertical among others.



## POST GRADUATE DIPLOMA IN CYBER SECURITY

### Introduction of the Sector

In today's digital era Information and Communication Technology (ICT) have become one of the basic requirements of society. It is difficult to think of any day-to-day activity without the use of digital devices. IT-ITeS sector includes IT services, engineering design, R & D services, BPO services. IT includes a wide variety of operations that uses information technology to improve the efficiency of any organization. IT enabled services are delivered over telecom or data network to a range of external business areas. The changing economic and business conditions, rapid technological innovation, the proliferation of the internet and globalization are creating an increasingly competitive environment. The role of technology has evolved from supporting corporations to transforming them. All these factors have made IT-ITeS a competent vertical among others. Information and Communication Technology (ICT) is very pertinent for the young generation in their education, employment and also for compliance of law and order in society.

### Programme Introduction

Cybersecurity is an increasingly important field in our interconnected world, with the rise of digitalization and the internet of things. Cyber-attacks can have severe consequences, including data breaches, financial losses, and reputational damage. It is essential to have robust cybersecurity measures in place to protect against these threats. Implementing a cybersecurity programme can help to reduce the risks of cyber- attacks and safeguard valuable data and information.

This programme equips students with the knowledge and skills to identify, prevent, and respond to cyber threats covering many topics, including cyber law, network security, cryptography, ethical hacking, cybercrime investigations, and risk management.

### **Programme Learning Outcomes**

Students who completed PG Diploma in Cyber Security can expect to-

1. Understand the fundamentals of cybersecurity and the importance of data protection.
2. Develop skills in identifying and mitigating cyber threats to an organization.
3. Understand the principles of network security, encryption, and secure communication.
4. Understand the laws and regulations related to cybersecurity and data protection.
5. Develop skills in ethical hacking and penetration testing.
6. Understand the principles of cybercrime investigation and digital forensics.
7. Develop skills in risk management and analysis.

### **Eligibility for Admission**

Bachelor's degree in Computer Sciences, Information Technology (BE / B-Tech in IT / CS, BSc - IT, BCA) or any other Bachelor's degree with programming knowledge. In addition, in-service personnel from Police, Defence, Paramilitary forces and related units with basic knowledge of programming can apply.

### **Career Prospects/Job Roles**

*Post Graduate Diploma in Cyber Security can help individuals pursue careers in the Cyber security field, including positions such as Cyber Security Analyst, Information Security Consultant, Network Security Engineer, Cyber Security Specialist in the field of Computer forensics, Data Security, Cyber Security Administrator, Chief Information Security Officer, Forensic Computer Analyst.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGCS101	Information Technology and Basics of Networking	2
	PGCS102	Programming Language	3
	PGCS103	Cyber Security and Security Architecture	3
	PGCS104	Cyber Law	3
	PGCS105	Emerging Technologies and Trends	3
	PGCSST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	PGCS201	Industrial Control System and Security	3
	PGCS202	Contemporary Cyber Threats and Mitigation	3
	PGCS203	Governance, Risk and Compliance	2
	PGCS204	Digital Forensics and Incident Response	2
	PGCS205	Capstone Project	4
	PGCSST2	Skill Training*	10
	CDPNE	Domain Practicum**	NC

*Note: Laptop/Desktop is recommended for the programme.*

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: Rs. 1,60,000/- per annum**

**Examination Fees: Rs.2,500/- per semester and Rs. 5000/- per annum**

**Caution Deposit (Refundable): Rs. 5000/-**

### Programme Summary

<b>(a)</b>	<b>Name of the Programme</b>	Post Graduate Diploma in Cyber Security
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Fortinet, Synoptics Technologies
<b>(d)</b>	<b>Credit Load</b>	48 credits
<b>(e)</b>	<b>Duration/ No. of Semesters</b>	1 Year / 2 Semesters
<b>(f)</b>	<b>Date on which BoS Approved</b>	5 <sup>th</sup> April 2024
<b>(g)</b>	<b>Date on which AC Approved</b>	18 <sup>th</sup> April, 2024
<b>(h)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	PGDCS Certificate (NSQF/NCrF Level 6)

# LOGISTICS SECTOR

## Introduction of the Sector

The logistics sector serves as the backbone of global commerce, facilitating the movement of goods from manufacturers to consumers with efficiency and precision. It encompasses a wide range of activities including transportation, warehousing, inventory management, and distribution. According to the Bureau of Labor Statistics (BLS), employment in the transportation and logistics sector is projected to grow by 18% from 2022 to 2032, which is faster than the average for all occupations. The rise of e-commerce is a significant driver, with global sales projected to reach \$6.38 trillion by 2024, as reported by Statista.

Consequently, there is an escalating need for robust logistics infrastructure to fulfil orders and manage deliveries. From supply chain analysts to inventory managers, the sector offers diverse career paths across various skill levels. As businesses continue to expand their operations and adapt to evolving consumer demands, the logistics industry remains a promising field for employment and career growth.



## POST GRADUATE DIPLOMA IN LOGISTICS WITH SPECIALIZATION IN SUPPLY CHAIN MANAGEMENT

### Programme Introduction

The Post Graduate Diploma in Logistics with Specialization in Supply Chain Management is a one-year, full time post graduate diploma programme. The programme intends to prepare students for a wide range of highly industry relevant careers both inside and outside the logistic industry, including Foreign Trade, Logistics, Legal and Regulations, Marketing Management, and Industrial Management by equipping students with knowledge in supply chain management, including buying, inventory control, supplier development, customer service, logistics, and distribution.

## Rationale and Feasibility of the Programme

This programme is highly relevant in today's rapidly evolving logistics landscape, where drone technology is increasingly pivotal. The global logistics market is experiencing significant growth, driven by the need for more efficient supply chain solutions. Nationally, the Indian logistics sector is expanding with increased emphasis on technology integration. The programme addresses these trends by providing specialized training in drone operations, aligning with both global and national educational and professional needs. It prepares graduates to tackle future challenges and seize opportunities in a tech driven logistics environment.

## Eligibility for Admission

Bachelor's degree in any stream

## Career Prospects/Job Roles

1. *Supply Chain Manager: Overseeing the entire supply chain process, from procurement to distribution, ensuring efficiency and cost-effectiveness.*
2. *Logistics Manager: Managing the transportation, warehousing, and distribution of goods, optimising routes and delivery schedules.*
3. *Procurement Manager: Responsible for sourcing goods and services, negotiating contracts with suppliers, and ensuring timely delivery of materials.*
4. *Operations Manager: Overseeing day-to-day operations within a company's supply chain, ensuring smooth functioning and coordination between different departments.*
5. *Inventory Manager: Managing inventory levels, optimising stock levels to meet demand while minimising excess inventory and holding costs.*
6. *Distribution Manager: Managing the distribution network, including warehouses and distribution centres, to ensure timely delivery to customers.*
7. *Supply Chain Analyst: Analysing data and trends within the supply chain to identify areas for improvement and cost savings.*
8. *Transportation Manager: Managing transportation operations, including selecting carriers, negotiating rates, and optimising shipping routes.*
9. *Warehouse Manager: Overseeing the efficient operation of warehouses, including inventory management, picking, packing, and shipping processes.*
10. *Consultant: Providing advisory services to companies on optimising their supply chain processes, improving efficiency, and reducing costs.*
11. *Logistics Coordinator: Coordinating the movement of goods, tracking shipments, and ensuring timely delivery to customers.*
12. *Procurement Specialist: Focusing on specific areas of procurement, such as strategic sourcing, supplier relationship management, or contract negotiation.*
13. *Quality Assurance Manager: Ensuring products meet quality standards throughout the supply chain, implementing quality control measures and conducting audits.*
14. *Supply Chain Planner: Forecasting demand, planning production schedules, and coordinating with suppliers to ensure the availability of materials.*
15. *Sustainability Manager: Developing and implementing sustainable practices within the supply chain, such as reducing carbon emissions and minimising waste.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGSCLM 1.1	Introduction to Logistics and Supply Chain	2
	PGSCLM 1.2	Applied GIS and Spatial Data Analytics	2
	PGSCLM 1.3	Logistic Documentation - International Trade Procedures	2
	PGSCLM 1.4	Optimisation Technique- Distribution Manage- ment for Global Supply Chain	2
	PGSCLM 1.5	Data Analytics	2
	PGSCLM 1.6	Strategic Management	2
	PGSCLM P1	Project	2
	PGDSCLM ST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	PGSCLM 2.1	Containerization and Multimodal Transport	2
	PGSCLM 2.2	Inventory Control - Procurement, Storage and Warehouse Management	2
	PGSCLM 2.3	Project Management - Plant Location and Layout	2
	PGSCLM 2.4	Port and Airport Management for Logistics	2
	PGSCLM 2.5	Operation and Supply Green Chain Risk Modelling and Management	4
	PGSCLM P2	Project	2
	PGDSCLM ST2	Skill Training*	10
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs.1,20,000/- per annum

**Examination Fees:** Rs.2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs.5000/-

**Programme Summary**

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Logistics with Specialization in Supply Chain Management
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Logistics Sector Skill Council and relevant industries
(d)	<b>Credit Load</b>	48 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(f)	<b>Date on which BoS Approved</b>	7 <sup>th</sup> June 2021
(g)	<b>Date on which AC Approved</b>	29 <sup>th</sup> July 2022
(h)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDLSCM Certificate</b> (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN LOGISTICS WITH SPECIALIZATION IN BIG DATA AND DATA ANALYTICS

### Introduction of the Sector

The logistics sector serves as the backbone of global commerce, facilitating the movement of goods from manufacturers to consumers with efficiency and precision. It encompasses a wide range of activities including transportation, warehousing, inventory management and distribution. According to the Bureau of Labor Statistics (BLS), employment in the transportation and logistics sector is projected to grow by 18% from 2022 to 2032, which is faster than the average for all occupations. The rise of e-commerce is a significant driver, with global sales projected to reach \$6.38 trillion by 2024, as reported by Statista. Consequently, there is an escalating need for robust logistics infrastructure to fulfil orders and manage deliveries. From supply chain analysts to inventory managers, the sector offers diverse career paths across various skill levels. As businesses continue to expand their operations and adapt to evolving consumer demands, the logistics industry remains a promising field for employment and career growth.

### Programme Introduction

The Post Graduate Diploma in Logistics with specialization in Big Data and Data Analytics is a one-year, full time post graduate diploma programme. In today's rapidly evolving business landscape, data science has emerged as a pivotal tool for unlocking insights, optimising processes, and driving strategic decision-making across industries. Within the realm of logistics and supply chain management, the integration of data science holds immense promise for enhancing efficiency, reducing costs, and mitigating risks. This Post Graduate Diploma Programme aims to equip students with the specialised skills and knowledge required to navigate this intersection between data science and logistics.

### Rationale and Feasibility of the Programme

The programme is designed to address the increasing demand for data science expertise in the logistics sector, driven by the rapid growth of e-commerce and the need for efficient supply chain management. The integration of data science into logistics operations offers significant potential for enhancing efficiency, reducing costs, and mitigating risks. This programme is relevant in the current and future contexts of global and national educational, developmental, and professional landscapes.

On a global scale, the logistics industry is undergoing a digital transformation, necessitating professionals who can leverage data analytics and machine learning to optimise processes. Nationally, initiatives like Skill India and the focus on digital India highlight the importance of developing a skilled workforce adept in modern technologies. This programme not only addresses the current skills gap but also prepares professionals for future challenges in the logistics sector, aligning with national development goals and global industry trends.

## Eligibility for Admission

Bachelor's degree in any stream

## Career Prospects/Job Role

1. *Data Analyst: Analyses transportation data and optimizes supply chain efficiency.*
2. *Supply Chain Analyst: Optimizes inventory management and procurement processes.*
3. *Project Manager: Leads logistics projects using data-driven insights.*
4. *Operations Analyst: Improves port and airport operations efficiency.*
5. *Sustainability Specialist: Develops green supply chain strategies.*
6. *Blockchain Logistics Specialist: Implements blockchain for transparency and security.*
7. *IoT Analyst: Monitors and optimizes logistics processes in real-time.*
8. *Documentation Specialist: Streamlines logistic documentation processes.*
9. *Supply Chain Manager: Optimizes supply chain networks and decision-making.*
10. *Machine Learning Engineer: Develops AI solutions for logistics optimisation.*
11. *Revenue Manager: Analyse data to optimise revenue and distribution strategies.*
12. *Quality Assurance Analyst: Utilises data analytics to ensure product quality and compliance with industry standards throughout the supply chain.*
13. *Customer Experience Manager: Analyses customer data to enhance satisfaction and loyalty, optimising delivery processes and personalized services based on customer preferences.*
14. *Regulatory Compliance Manager: Ensures compliance with regulatory requirements and industry standards, leveraging data analytics to monitor and enforce compliance across logistics processes.*
15. *Forecasting Analyst: Uses predictive modelling techniques to forecast demand, inventory levels, and transportation needs, optimising resource allocation and reducing stockouts.*
16. *Vendor Relations Manager: Manages relationships with suppliers and vendors, using data analytics to evaluate performance, negotiates contracts, and optimizes procurement processes for cost savings and efficiency gains.*
17. *Global Trade Compliance Specialist: Ensure compliance with international trade regulations and customs requirements, using data analytics to manage risks and streamline cross-border logistics processes.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDDSL 1.1	Supply Chain Management	2
	PGDDSL 1.2	Data Analytics and Statistics	2
	PGDDSL 1.3	Inventory Control	2
	PGDDSL 1.4	Fundamentals of Logistics	2
	PGDDSL 1.5	Optimisation Technique 1	2
	PGDDSL 1.6	Plant Location and Layout	2
	PGDDSL P1	Project	2
	PGDDSL ST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	PGDDSL 2.1	Supply Chain Applications of Block Chain	2
	PGDDSL 2.2	Concept and Applications of Internet of Things	2
	PGDDSL 2.3	Logistic Documentation	2
	PGDDSL 2.4	Advanced Logistics	2
	PGDDSL 2.5	Machine Learning Concepts	2
	PGDDSL 2.6	Revenue and Distribution Management	2
	PGDDSL P2	Project	2
	PGDDSL ST2	Skill Training*	10
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees: Rs. 1,20,000/- per annum**

**Examination Fees: Rs. 2,500/- per semester and Rs. 5000 per annum**

**Caution Deposit (Refundable): Rs. 5000/-**

## Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Logistics with Specialization in Big Data and Data Analytics
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Logistics Sector Skill Council and relevant industries
(d)	<b>Credit Load</b>	48 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(f)	<b>Date on which BoS Approved</b>	18 <sup>th</sup> April, 2024
(g)	<b>Date on which AC Approved</b>	2 <sup>nd</sup> August, 2024
(f)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	PGDLBDDA Certificate (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN LOGISTICS WITH SPECIALIZATION IN DRONE OPERATIONS

### Introduction of the Sector

The logistics sector serves as the backbone of global commerce, facilitating the movement of goods with efficiency and precision. With the rise of e-commerce driving demand, employment in the transportation and logistics sector is projected to grow by 18% from 2022 to 2032, according to the Bureau of Labor Statistics (BLS), which is faster than the average for all occupations.

Concurrently, drones, or Unmanned Aerial Vehicles (UAVs), have emerged as a disruptive force, offering unparalleled speed and efficiency in logistics operations. With the global drone logistics market expected to reach \$29.06 billion by 2027, the integration of drones into the logistics sector promises to revolutionize inventory management, warehouse operations, and transportation logistics. This convergence presents diverse career opportunities for professionals skilled in both logistics and drone technology, offering faster delivery times, reduced costs and increased efficiency in supply chain management.

### Programme Introduction

The Post Graduate Diploma in Logistics with specialization in Drone Operations is a one-year, full time postgraduate diploma programme. This is a specialized programme that equips students with a comprehensive understanding of drone manufacturing, programming, and operations. Students shall gain practical experience through lab sessions, project work, and flight training. The programme prepares graduates for a wide range of careers in the rapidly growing drone industry. Graduates may find employment opportunities with drone suppliers, defense organizations, government agencies, and startups, working in areas such as manufacturing, logistics, telecommunications, and rural development. By completing this programme, students will develop the skills and knowledge needed to leverage drone technology to address real-world challenges across various sectors. The programme aims to produce skilled professionals who can contribute to the advancement and responsible use of drone technology in society.

## Rationale and Feasibility of the Programme

The Post Graduate Diploma in Drones Operations - Logistics is highly relevant in today's rapidly evolving logistics landscape. The convergence of logistics and drone technology addresses both current and future needs of the industry, offering innovative solutions to enhance efficiency, reduce costs, and improve delivery times. As global commerce continues to grow, the demand for skilled professionals who can integrate and manage advanced technologies like drones in logistics is increasing.

In the national context, India's logistics sector is poised for significant growth, driven by the expansion of e-commerce and the government's focus on infrastructure development. The programme aligns with national priorities by fostering a skilled workforce capable of leveraging drone technology to improve supply chain efficiency and competitiveness. The programme aligns with the National Education Policy (NEP) by promoting interdisciplinary learning, practical skills, and industry collaboration, ensuring graduates are prepared for the dynamic demands of the logistics sector.

Globally, the adoption of drone technology in logistics is transforming supply chain management. This program provides students with the knowledge and skills to participate in this global transformation, positioning them for successful careers in a rapidly evolving field.

## Eligibility for Admission

Bachelor's degree in any stream

## Career Prospects/Job Role

1. *Drone Risk Analyst: Identifies and mitigates risks in drone operations for safe logistics.*
2. *ODC Monitoring Specialist: Monitors Over Dimensional Cargo (ODC) during loading, transit, and unloading for optimized transportation*
3. *Inventory Management Specialist - Drones: Manages inventory using drones for efficient stock control.*
4. *Data Analyst - Drones: Analyses drone data to improve inventory management and supply chain efficiency.*
5. *Warehouse Surveillance Officer - Drones: Utilises drones for warehouse security surveillance, minimising risks of theft or damage.*
6. *Supply Chain Optimization Specialist - Drones: Optimizes supply chain processes using drone data insights.*
7. *Logistics Technology Consultant - Drones: Advises on drone technology integration for enhanced logistics operations.*
8. *Drone Operations Manager: Oversees drone operations for inventory management, security, and ODC monitoring in logistics.*
9. *Drone Cargo Specialist: Specializes in the transportation of goods via drones, optimising payload configurations and delivery routes for efficient logistics operations.*

1. *Logistics Drone Deployment Strategist: Develops strategies for the effective deployment of drones in logistics, considering factors such as route optimisation, regulatory compliance, and operational efficiency.*
2. *Drone Integration Specialist: Integrates drone technology into existing logistics systems, ensuring compatibility, functionality, and efficiency in supply chain management processes.*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDDO 1.1	Introduction to Drones	2
	PGDDO 1.2	Pre-flight Inspections	2
	PGDDO 1.3	Drone Data Management I	2
	PGDDO 1.4	Drone Data: Inventory Management	2
	PGDDO 1.5	Monitoring Over Dimensional Cargo	2
	PGDDO 1.6	Handling Situations: Aviation Security Environment	2
	PGDDO P1	Project	2
	PGDDO ST1	Skill Training*	10
	CDPNE	Domain Practicum**	NC
II	PGDDO 2.1	Drone Based Warehouse Security and Surveillance	2
	PGDDO 2.2	Optimisation of Drone Based in Plant Supply	2
	PGDDO 2.3	Application of Drones in Warehouse Logistics	2
	PGDDO 2.4	Drone Data Management II	2
	PGDDO 2.5	Big Data in Drone Based Logistics	2
	PGDDO 2.6	Legal Aspects of Drones in Logistics	2
	PGDDO P2	Project	2
	PGDDO ST2	Skill Training*	10
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,60,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Logistics with Specialization in Drone Operations
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Logistics Sector Skill Council and relevant industries
(d)	<b>Credit Load</b>	48 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Year / 2 Semesters
(f)	<b>Date on which BoS Approved</b>	18 <sup>th</sup> April, 2024
(g)	<b>Date on which AC Approved</b>	2 <sup>nd</sup> August, 2024
(h)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDLDO Certificate</b> (NSQF/NCrF Level 6)

# MANAGEMENT AND ENTREPRENEURSHIP SECTOR

## Introduction of the Sector

Management is a key skill of getting things done through and with people, whereas Entrepreneurship is a mindset that requires creativity, innovation and professional skills while addressing a new opportunity.

The process of improving professional skills and knowledge of entrepreneurs and to increase the number of entrepreneurs is the salient aim of the sector.



## POST GRADUATE DIPLOMA IN HR AND ADMINISTRATION

### Programme Introduction

The Programme seeks to give the participant an initial understanding of HR Administration, its brief history, the concept, and processes. The objective of this course is to give the participant an insight into the various types of HR. In various small and mid-sized organizations, the HR admin functions are clubbed together as it may not require separate teams to handle these functions and moreover, the complexities involved. In such cases it is imperative that the professionals handling such roles are conversant with both the functions. Thus, this course of PG Diploma in HR and Administration will provide the candidate with the knowledge related to some of the core (transactional) functions of HR as well as some functions of Admin work.

### Programme Objective

- To become a competent HR professional in a medium sized organization
- To be able to deliver to the fullest satisfaction of workforce
- To be able to work under the right guidance and support
- To develop relevant skills necessary for application in HR related issues

### Programme Learning Outcome

- To understand and operate HR at operational level
- Understand and deploy employee grievances and related outcomes
- Should possess adequate HR knowledge to provide service to employees to increase satisfaction level
- Understand employee behaviour and reaction
- To understand HR processes, be able to work effectively and provide inputs for decision making

### Eligibility for Admission

- Any Graduate
- Jr. working professionals from HR and Administrative departments and personnel in other line departments/Strategic Business UNITS (SBUs) of Public Sector Enterprise

### Employability/Skill Enhancement

This programme will enable carrying out of the HR functions in the enterprise by other department personnel as well, where there is a need for getting a greater effectiveness by performing the needed HR functions for performing the core/line activities of the organization, strengthening the Human Resource Delivery Systems. This programme shall impart knowledge as well as practical skills in the areas of recruitment, compensation, training, performance management and administration

### Career Prospects/Job Roles

After pursuing the PG Diploma in HR and Administration the students can start their own Consultancy, can get jobs as Employee Relation Manager, Training and Development Manager, Staffing Director, Compensation Manager, HR Generalist, etc.

### SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDHR 1.1	Introduction to Human Resource Management	2
	PGDHR 1.2	Recruitment and Selection	2
	PGDHR 1.3	Administrative Management	2
	PGDHR 1.4	Training and Development	2
	PGDHR P1	Project	4
	PGDHR ST1	Skill Training*	12
	CDPNE	Domain Practicum**	NC
II	PGDHR 2.1	Performance Management	2
	PGDHR 2.2	Compensation and Payroll Management	2
	PGDHR 2.3	Industrial Relations and Labour Laws	2
	PGDHR 2.4	HR Analytics & HR Audit	2
	PGDHR P2	Project	4
	PGDHR ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,20,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000/- per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in HR and Administration
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Credit Load</b>	48 credits
(d)	<b>Duration/ No. of Semesters</b>	1 Year / 2 Semesters
(e)	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	PGDHRA Certificate (NSQF/NCrF Level 6)

## POST GRADUATE DIPLOMA IN DIGITAL MARKETING

### Programme Introduction

Digital Marketing' is now an indispensable part of any effective marketing campaign, because of its targeted reach, customized messaging, low costs and huge availability of data for analysis. This program shall enable participants to get a wide as well as deep understanding of the subject and will be able to conduct /ting activities on a host of digital platforms.

### Rationale and feasibility of the programme

The rapid growth of Digital Marketing Industry is a direct consequence of the global phenomenon that is the Internet, and effectiveness of Digital Marketing channels in generating revenue and awareness. Compared to traditional methods of advertising, digital marketing offers rather realistic costs (particularly important for small and medium-sized businesses and start-ups), accurate targeting of prospective customer and excellent analytical reporting. Digital Marketing is now an indispensable part of any effective marketing campaign, because of its targeted reach, customized messaging, low costs and huge availability of data for analysis. This program shall enable participants to get a wide as well as deep understanding of the subject and will be able to conduct marketing activities on a host of digital platforms.

### Eligibility for Admission

- Any Graduate
- Working professional from Marketing / Sales and Administrative departments and personnel in other line departments/Strategic Business UNITS (SBUs) of Public Sector Enterprise

### Employability/ Skill Enhancement

After attending this course, participants will have a clear understanding of how to measure and monitor their online traffic. Using this information, they would be able to update their marketing campaigns to drive increased traffic to their business.

### Career Prospects/Job Roles

*The various roles that a participant can take up after successfully completing this programme are as follows:*

- *Digital Marketing Executive*
- *Sales Promotion Executive*
- *Marketing data Analytics Executive*
- *Marketing Co-ordinator*
- *Sales Support Executive*
- *Online Market Research Executive*

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDDM 1.1	Digital-Marketing Fundamentals	2
	PGDDM 1.2	Search Engine Optimization (SEO)	2
	PGDDM 1.3	Search Engine Market- ing (SEM)	2
	PGDDM 1.4	E-commerce and lead generation	2
	PGDDM 1.5	Self Service Technologies in Digital Marketing	2
	PGDDM P1	Project	2
	PGDDM ST1	Skill Training*	12
II	PGDDM 2.1	Marketing Analytics	2
	PGDDM 2.2	Social Media Marketing	2
	PGDDM 2.3	Content Marketing and Google Ad Sense	2
	PGDDM 2.4	Advertising and Promotion on Web Google analytics, GDN advertising	2
	PGDDM P2	Project	4
	PGDDM ST2	Skill Training*	12
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,20,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000/- per annum

**Caution Deposit (Refundable):** Rs. 5000/-

**Programme Summary**

<b>(a)</b>	<b>Name of the Programme</b>	Post Graduate Diploma in Digital Marketing
<b>(b)</b>	<b>Anchoring School</b>	School of Skill Education, TISS
<b>(c)</b>	<b>Credit Load</b>	48 credits
<b>(d)</b>	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
<b>(e)</b>	<b>Date on which BoS Approved</b>	4 <sup>th</sup> October 2019
<b>(f)</b>	<b>Date on which AC Approved</b>	18 <sup>th</sup> October, 2019
<b>(g)</b>	<b>Certificates Awarded &amp; NSQF/NCrF Level</b>	<b>PGDDM Certificate (NSQF/NCrF Level 6)</b>

# FOOD PROCESSING SECTOR

## Introduction of the Sector

The rapidly growing food processing sector / industry is a significant contributor to India's economy, with a projected growth rate of 6.6% from 2021 to 2028. The sector is driven by the demand for processed food products, particularly in the retail sector, and the rise of health-conscious consumers. The Ministry of Food Processing Industries (MOFPI) aims to boost investments in the sector by enhancing farmers' income, minimizing wastage, and introducing modern technology. Key



initiatives include the Pradhan Mantri Kisan Sampada Yojana (PMKSY), the Mega Food Parks Scheme, and the Production Linked Incentive Scheme for Food Processing Industry

(PLISFPI). The sector is expected to grow significantly, with a projected value of USD 235.67 billion by 2028. The demand for trained professionals in this field is also increasing. The food industry today has become highly diversified, with manufacturing ranging from small, traditional, family-run activities that are highly labour-intensive, to large, capital-intensive and highly mechanized industrial processes.

## POST GRADUATE DIPLOMA IN FOOD TECHNOLOGY

### Programme Introduction

This programme is designed to meet the needs of the industry by providing students with the necessary skills and knowledge to succeed in the food industry. The programme will also provide students with hands-on experience through laboratory work and industry projects. Overall, the PG Diploma in Food Technology will provide students with a strong foundation in the field of food science and technology, and prepare them for successful careers in the food industry.

### Programme Outcomes

- **Understanding of food processing and preservation techniques:** Students will gain knowledge about various food processing techniques, including canning, freezing, drying, and pasteurization, and preservation methods, such as chemical, physical, and biological preservation methods.
- **Knowledge of food safety and quality control:** Students will learn about food safety principles, including HACCP, and quality control methods, including sensory analysis, microbiological analysis, and chemical analysis.

- **Knowledge of food packaging and labelling:** Students will gain knowledge about the different types of packaging materials and methods and the regulations related to food labelling.
- **Ability to develop new food products:** Students will acquire the skills to develop new food products using their knowledge of food processing, preservation, safety, and quality control
- **Knowledge of food regulations and laws:** Students will learn about the different food regulations and laws related to food safety, labelling, packaging, and marketing.
- **Effective communication and teamwork skills:** Students will develop effective communication and teamwork skills through group projects, presentations and collaborations with industry professionals.
- **Career readiness:** Students will be prepared for various career opportunities in the food industry, including food processing, quality control, research and development, food safety, and regulatory affairs.
- **Entrepreneurial skills:** Students will develop entrepreneurial skills necessary to start their own food-related businesses, including developing business plans, identifying target markets, and sourcing funding.

#### **Eligibility for Admission**

- Graduates in Agriculture/Food Technology/ Dairy Technology/ Horticulture/Home Science/ Agriculture Engineering
- Science graduates with Chemistry/Life Science/Biotechnology/Microbiology/BE are eligible for the admission

#### **Employability/Skill Enhancement**

- To provide students with advanced knowledge and skills in the field of food science and technology.
- The programme aims to educate students in the principles of food processing, preservation, packaging, and quality control, as well as the latest trends and technologies in the food industry.
- Opportunity to specialize in one of four different food groups, Dairy, Fruits and Vegetables, Meat, Fish, and Poultry, and Cereal, Pulses, and Oilseeds.

#### **Career Prospect/Job Roles**

A Postgraduate Diploma in Food Technology can lead to various career opportunities in Food Research and Development, Quality Control and Assurance, Food Processing and Packaging, Food Inspection and Regulation, Food Sales and Marketing, Food Service Management, Entrepreneur, Teaching and Research.

## SEMESTER-WISE LISTING OF COURSES

SEMESTER	SUBJECT CODE	COURSE TITLE	CREDITS
I	PGDFT 1.1	Food Science and Nutrition	2
	PGDFT 1.2	Food Microbiology	2
	PGDFT 1.3	Food Chemistry and Analysis	2
	PGDDM 1.4	E-commerce and lead generation	2
	PGDFT 1.4	Cereals, Pulses and Oilseeds	2
	PGDDM P1	Project	2
II	PGDFT 2.1	Food Engineering and Unit Operations	2
	PGDFT 2.2	Meat, Fish and Poultry	2
	PGDFT 2.3	Dairy Science and Technology	2
	PGDFT 2.4	Food Safety and Quality Management	2
	PGDDM P2	Project	4
	PGDFT 2.5	Food Entrepreneurship and Business Development	2
	CDPNE	Domain Practicum**	NC

\*The skill training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement. This 60% of the skill training component will be the non re-evaluative component.

\*\*Domain Practicum (Audit) hours are non-credit hours added in compliance with the credit allocation of NCrF, 2023 to be fulfilled through an assignment/project/case study. The full form of CDPNE is "Compulsory Domain Practicum and Non-Evaluative".

**Programme Fees:** Rs. 1,08,000/- per annum

**Examination Fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit (Refundable):** Rs. 5000/-

### Programme Summary

(a)	<b>Name of the Programme</b>	Post Graduate Diploma in Food Technology
(b)	<b>Anchoring School</b>	School of Skill Education, TISS
(c)	<b>Knowledge Partners for Skill Training/Industry Partner</b>	Mondelez, Kellanova (formerly Kellogg's), Unilever, Danone, Parle Agro, BioZed Engineering Pvt. Ltd, Taj Lands End, D'Lecta Pvt Ltd
(d)	<b>Credit Load</b>	48 credits
(e)	<b>Duration/ No. of Semesters</b>	1 Years / 2 Semesters
(f)	<b>Date on which BoS Approved</b>	4 <sup>th</sup> May, 2023
(g)	<b>Date on which AC Approved</b>	9 <sup>th</sup> May, 2023
(h)	<b>Certificate Awarded &amp; NSQF/NCrF Level</b>	PGDFT Certificate (NSQF/NCrF Level 6)

## LEADING PLACEMENT ORGANIZATIONS

### Field Placement Organizations in the last three years (2022-23 to 2024-25)

Academic Year 2022-2023		Academic Year 2023-2024		Academic Year 2024-2025	
Vertical Name	Count	Vertical Name	Count	Vertical Name	Count
Agriculture	45	Agriculture	7	Agriculture	50
Automotive	56	Automotive	59	Automotive	14
Banking, Financial Services and Insurance (BFSI)	19	Banking, Financial Services and Insurance (BFSI)	16	Banking, Financial Services and Insurance (BFSI)	27
Capital Goods	38	Capital Goods	202	Capital Goods	141
Child Care	6	Education	6	Electronics	83
Electronics	67	Electronics	66	Healthcare	1179
Healthcare	755	Healthcare	920	Information Technology Enabled Services	144
Information Technology Enabled Services	91	Information Technology Enabled Services	95	Life Sciences	359
Life Sciences	114	Life Sciences	318	Management & Entrepreneurship	33
Management & Entrepreneurship	40	Management & Entrepreneurship	26	Media & Entertainment	8
Media And Entertainment	23	Media And Entertainment	24	Power	48
Power	7	Power	14	Tourism & Hospitality	182
Tourism & Hospitality	61	Sports	5	<b>Grand Total</b>	<b>2268</b>
<b>Grand Total</b>	<b>1322</b>	Tourism & Hospitality	179		
		<b>Grand Total</b>	<b>1937</b>		

All the programmes offered from the School of Skill Education are outcome based and work integrated. Along with rigorous taught classes, on-the-job training/internship is a mandatory component, for which students are given the skill training directly in the workplaces of SSE's knowledge/industry partners for skill training, at industry linked locations. Some of the Organizations where our students received skill training across Agriculture, Automotive, Banking, Financial Services & Insurance (BFSI), Capital Goods, Child Care, Education, Electronics, Healthcare, Information Technology Enabled Services (IT-ITeS), Life Sciences, Management & Entrepreneurship, Media & Entertainment, Power, Sports, Tourism & Hospitality skill sectors include the following:

During 2022-23, the School of Skill Education, TISS placed 1322 students for their internship/skill training in the sector/domain of the programme opted for. The Organizations where the students have been trained are as follows:

- **Agriculture sector:** Mitraniketan, Farms & Farmers Foundation
- **Automotive:** Deccan Management Consultants Finishing School, Kuttukaran Foundation, Funfirst Global Skillers Private Limited
- **Banking Financial Services and Insurance (BFSI):** Folkskill Pvt Ltd
- **Capital Goods:** Deccan Management Consultants Finishing School Pvt. Ltd., GKD Institute for Technological Resources
- **Child Care:** Child in need Institute
- **Electronics:** Funfirst Global Skillers Private Limited
- **Healthcare:** Adarsh Foundation, All India Institute of Local Self Government, Apex Kidney Care Pvt Ltd., Centre for Employment and Educational Guidance, Iqraa Academy of Iqraa International Hospital and Research Centre, Islamic Welfare Trust, Lakshy Infra, Lourde Institute of Paramedical Sciences (Kanate Foundation), Sairaj Enterprises, Shree Chhatrapati Shivaji Shikshan and Sanshodhan Sanstha (Adarsh Paramedical Institute), Swami Vivekanand Bahuuddeshiya Shikshan Sanstha, Tikсна Livelihood Private Limited, Vaidyanath Paramedical Institute, Vishwas Institute of Paramedical Sciences (Arogya Vidya Prasarak Mandal)
- **Information Technology Enabled Services (IT-ITeS):** Folkskill Pvt Ltd, PC Training Institute Limited, Saint Peter Education and Welfare Society
- **Life Sciences:** CEO Skill Foundations Pvt. Ltd., Source People Solutions Private Limited
- **Management and Entrepreneurship:** Josho Learning Pvt Ltd, Lakshy Infra, Vishrut Associates LLP
- **Media & Entertainment:** Vishrut Associates LLP, M/S SHINING PIXEL
- **Power:** Funfirst Global Skillers Private Limited
- **Tourism & Hospitality:** All India Institute of Local Self Government, JB INITIATIVES, Source People Solutions Private Limited, SWT CLUB PVT LTD

During 2023-24, the School of Skill Education, TISS placed 1937 students for their internship/skill training in the sector/domain of the programme opted for. The Organizations where the students have been trained are as follows:

- **Agriculture:** Mitraniketan
- **Automotive:** CD Global Business Solutions Pvt Ltd, Kuttukaran Foundation, Funfirst Global Skillers Private Limited
- **Banking Financial Services & Insurance (BFSI):** Pal India Computer Education
- **Capital goods:** Deccan Management Consultants Finishing School Pvt. Ltd., BlueOgWhite Academy LLP

- **Electronics:** Funfirst Global Skillers Private Limited
- **Education:** School of Skill Education, Tata Institute of Social Sciences
- **Healthcare:** Adarsh Foundation, AT Institute of Allied Health and Paramedics (Abiramam Trust), Apex Kidney Care Pvt Ltd., Centre for Employment and Educational Guidance, Iqraa Academy of Iqraa International Hospital and Research Centre, Islamic Welfare Trust, Lenskart Eyetech, Lourde Institute of Paramedical Sciences (Kanate Foundation), Maharashtra Paramedical Institute, Noon Hospital & Research Centre (Zeen-Zar Charitable Foundation Trust), Sairaj Enterprises, Shree Chhatrapati Shivaji Shikshan and Sanshodhan Sanstha (Adarsh Paramedical Institute), Swami Vivekanand Bahuuddeshiya Shikshan Sanstha, Tikсна Livelihood Private Limited, Vaidyanath Paramedical Institute, Vishwas Institute of Paramedical Sciences (Arogya Vidya Prasarak Mandal)
- **Information Technology Enabled Services (IT-ITeS):** Pal India Computer Education, PC Training Institute Limited, Saint Peter Education and Welfare Society
- **Life Sciences:** CEO Skill Foundations Pvt. Ltd., Source People Solutions Private Limited, Central Institute of Business Management Research & Development, DIVS Academy
- **Management & Entrepreneurship:** Josho Learning Pvt Ltd
- **Media & Entertainment:** NIDA Communication & Digital Marketing
- **Power:** Funfirst Global Skillers Private Limited
- **Sports:** IOT Sports Education LLP
- **Tourism & Hospitality:** All India Institute of Local Self Government, BlueOgWhite Academy LLP, Centre for Management and Information Technology, JB INITIATIVES, YUVASEVA EDUCATIONAL TRUST, Tikсна livelihood private limited, SWT CLUB PVT LTD

During 2024-25, the School of Skill Education, TISS placed 2268 students for their internship/skill training in the sector/domain of the programme opted for. The Organizations where the students have been trained are as follows:

- **Agriculture:** Mitraniketana, Farms & Farmers Foundation
- **Automotive:** Kuttukaran Foundation
- **Banking Financial Services & Insurance (BFSI):** Josho Learning Pvt Ltd, Pal India Computer Education
- **Capital goods:** Deccan Management Consultants Finishing School Pvt. Ltd., GKD Institute for Technological Resources, BlueOgWhite Academy LLP, INDIAN TECHNICAL EDUCATION SOCIETY
- **Electronics:** Funfirst Global Skillers Private Limited
- **Healthcare:** Ashva Education Society, Apex Kidney Care Pvt Ltd., DPMI VOCATIONAL INSTITUTE PVT. LTD, Centre for Employment and Educational Guidance, Iqraa Academy of Iqraa International Hospital and Research Centre, Islamic Welfare Trust, Lenskart Eyetech, Lourde Institute of Paramedical Sciences

(Kanate Foundation), Sairaj Enterprises, Shree Chhatrapati Shivaji Shikshan and Sanshodhan Sanstha (Adarsh Paramedical Institute), Skilling College of Paramedical Education (Unit of Arogya Medical Education Trust), Tikсна Livelihood Private Limited, Vaidyanath Paramedical Institute

- **Information Technology Enabled Services (IT-ITeS):** Pal India Computer Education, PC Training Institute Limited, Saint Peter Education and Welfare Society, Raj Software Technology (India) Ltd
- **Life Sciences:** CEO Skill Foundations Pvt. Ltd., Source People Solutions Private Limited, Labournet Services India Pvt. Ltd
- **Management & Entrepreneurship:** Josho Learning Pvt Ltd, School of Professional Development (SPD)
- **Media & Entertainment:** NIDA Communication & Digital Marketing
- **Power:** Funfirst Global Skillers Private Limited
- **Tourism & Hospitality:** All India Institute of Local Self Government, De Paul Institute of Management Development (A Unit of Vincentian House), JB INITIATIVES, YUVASEVA EDUCATIONAL TRUST, Source People Solutions Private Limited, SWT CLUB PVT LTD, Tikсна Livelihood Private Limited

### Job Placement Organizations in the last four years (2021-22 to 2024-25)

The TISS SSE is constantly working on giving its students the platform to acquire/develop industry-relevant skills through a blend of rigorous domain/sector specific and value-added taught classes and on-the-job skill training which make them job ready. After the completion of the programmes opted for SSE students normally take three career pathways namely, **employment/placement, higher education and entrepreneurship.**

**During the academic years 2021-22 and 2022-23,** the School of Vocational Education (now School of Skill Education) placed 960 students (79 percent) in various industries and skill sectors. Besides, 175 students applied for higher studies after completion of their B.Voc. Programmes, and 52 students started their own entrepreneurship.

The various Organizations where SSE students have been placed were DeHaat, Farmers Producer Organization, Pathanamthitta, DBS Bank, Equentis Wealth Advisory Pvt Ltd, Kotak Mahindra Bank, Wistron, Deluxe India, PCR Global Solutions, RVCJ DIGITAL MEDIA, Biocine media entertainment, Ayurzon Wellness, T and T Solar Energy, 7 STEPS WEDDING FILM, YFX - Yash Raj Studios, Xolo Cab, Lava International Ltd., SALCOMP, Optiemus Electronics Limited, Sila Solution Pvt Ltd, Acma Computers Ltd, Intel, Tata AIA Life Insurance, Honda India Power Point, HDFC Bank, Hyatt, JW Marriot Juhu, Policy Bazar.com, KKK VENTURES, Nexa Power Solution Pvt Ltd, etc, working in the various fields of Agriculture (AG), Banking, Financial Services And Insurance (BFSI) (CB), Information Technology Enabled Services (IT), Media and Entertainment (ME), Electronics, Management & Entrepreneurship, Power, Healthcare, etc.

During the academic year 2023-24, the School of Vocational Education (now School of Skill Education) placed 610 students (80 percent) in various industries and skill sectors across Automotive, Capital Goods, Dialysis Technology, Electronics, Healthcare, ITes, Life Sciences, Management and Entrepreneurship, Media and Entertainment, Power and Tourism and Hospitality. Besides, 84 students applied for higher studies after completion of their Bachelor Programmes, and 8 students started their own entrepreneurship.

The key recruiters were Amazon Logistics Germany, Gozoop, Chandrang Versatile, Gastronomica Kuwait, Salcomp Manufactuirng, JP Morgon Cruise, Alpha Investment, VFS Global, House of Blue Beans, vSplash Techlabs Private Limited, Esteem Auto Pvt. Ltd., Silver Spoon Enterprise, VGUARD Industries Limited, Google Maps, Aditya Birla Sun Life Insurance Company Limited, Graphic impressions, Gayatri Granite, etc.

### Career paths of June 2024 and January 2025 Graduates

Vertical	Not opted	Placed/ Absorbed/ Employed	Placement search in process	Pursuing further education	Self employed	status update awaited	Grand Total
Agriculture	1	16	8				25
Automotive (AU)		44	1	12	6	3	66
Banking Financial Services and Insurance BFSI	3	3		4	2		12
Capital Goods (TM)	4	27	1	5	2		39
Childcare (CC)		5		3			8
Education		1		1			2
Electronic		52		4		2	58
Healthcare (HC)	11	177	95	151	8	94	536
Information Technology Enabled Services (ITES)	4	7		9	6		26
Life Sciences (PH)	1	53	1	1	1		57
Management & Entrepreneurship		9					9
Management & Entrepreneurship (HR)		3			16		19
Media And Entertainment	1	7		13			21
Power		19			2		21

Tourism & Hospitality (HP)	4	24	1	10	4	2	45
<b>Grand Total</b>	<b>29</b>	<b>447</b>	<b>107</b>	<b>213</b>	<b>47</b>	<b>101</b>	<b>944</b>

**During the academic year 2024-25**, out of the 944 graduates of June 2024 and January 2025 final exams, 519 students from the School of Skill Education secured jobs with industry partners across Agriculture, Automotive, BFSI, Capital Goods, Child Care, Education, Electronics, Healthcare, ITeS, Life Sciences, Management and Entrepreneurship, Media and Entertainment, Power, and Tourism and Hospitality skill sectors; 213 pursued higher studies; and 119 started their own ventures. Thus, about 80% of SSE students are settled in career pathways, while 20% are either seeking placements or opted out due to personal reasons like marriage or relocation.

Our key recruiters in this AY include Krishi Bhavan, Bandhan Bank, Muthoot Finance (Agriculture and BFSI); TVS Cochin, Vision Honda, Kairali Ford, BMW EVM Autokraft, Gem Phoenix Skoda, Sanjeev Auto Parts, Titan, Alstom, Varroc, Endurance Technologies (Automotive & Manufacturing); Fortis, Kokilaben, Apollo, Nidaan, Dr. Lal Path Labs, Nephroplus, Granules India, Aurobindo, Caplin Point (Healthcare and Life Sciences); Lava International, DBG Technology, F1 Info Solutions, Gartner, Datamatics (IT & Telecom); Ogilvy, Zee Studios, Shoppers Stop, Livewire Media Institute, Dazzler Studio, Whistling Woods International (Media & Services); Tata Power, Adani Solar, Sterling & Wilson, BHEL (Energy and Infrastructure), Taj Hotels, Hilton, Leela Palace, ITC, Holiday Inn, Ramada, Zuri Hotel (Tourism and Hospitality) and many others across education, real estate, consulting, and non-profits.

# EXAMINATION & EVALUATION

## Eligibility

### Attendance

Attendance in class and on-the-job training is compulsory. Every student is expected to maintain regularity and 100% attendance in all taught courses and On-the-job training. However, for examination eligibility purposes following would be considered:

- Taught classes: A minimum of 75% attendance is required in each subjects to ensure attendance.
- On-the-job training: A minimum of 75% attendance is required to ensure attendance.
- Submission of assigned generic project and three Domain project is mandatory for Exam eligibility.

### Attendance policies for programmes

1. Absence up to 25% may be condoned by the Dean of the School. Remaining absenteeism for 25% of the time is not a matter of right, but a measure to support students to meet medical or health issues or for personal and family crises.
2. Attendance between 74% to 67% or (Absence between 26–33%) will make the student ineligible to appear for the examination. The student can, however, appear for the supplementary examination whenever it is scheduled to be held.
3. Attendance below 67% or (Absence above 33%) will automatically lead to the student repeating the course when offered in the next academic year. This includes absence due to medical emergencies as well.

Students who have attendance less than 67% or (more than 33% absences) in up to 2 subjects will be declared as “Failed and Repeat the semester (FR)”. Students who have more than 33% absence in more than 2 subjects will be required to repeat the semester with the forthcoming batches. Students can do multiple repeat semesters within the total time span (5 Years) available for the completion of the programme as stated below.

- Six (6) years i.e. for Bachelor (regular duration of programme 3 years plus additional extended 3 years)
  - Three (3) years i.e. for Diploma (regular duration of programme 1 year plus additional extended 2 years)
4. Absence for medical or other exigent reasons can be taken with permission through a leave application submitted to the Vertical Manager, which may be granted in consultation with the Dean / Program Head. In no case, it cannot exceed 25%.
  5. If the student fails in Supplementary 1 in any of the 2 subjects, he can appear for Supplementary 2. Supplementary 2 can be conducted after 8-10 days of result declaration of supplementary 1 exam.
  6. If the student fails in the Supplementary 2 exams, he/she will be declared “Failed and Repeat Semester (FR)” and has to appear for Repeat Semester of Failed Subjects (maximum two subjects) along with the forthcoming main examination.
  7. If the Student passes the said exam, it will be reflected in the semester grade card as “RE”.

If a Student fails in this exam, he/she will have to repeat the entire semester in future. The enrolment for the semester will be subject to the availability of the batch.

As this is the final attempt for the students, some doubt clearing sessions will be arranged as mentioned below:

- For 100 marks subject-arrange 10 doubt clearing sessions of one hour each
- For 50 marks subject-arrange 5 doubt clearing sessions of one hour each
- Students are expected to complete the remaining preparation through self-study mode

**Even though the SSE need to conduct significantly fewer classes, the attendance criteria of 75% will still prevail in this case**

- All the provisional classes of the succeeding semester that has been attended by
- the student will stand cancelled till the time the student will clear all subjects of the preceding semester.
- Once the student is promoted to the new semester, he/she needs to ensure all the required eligibility criteria to be met before writing the main examination.

The fees to be paid for the Repeat Semester of failed subjects (maximum two numbers) along with the forthcoming main examination is Rs. 2,000/- per subject plus the entire fees of end term examination i.e. Rs.1600/- irrespective of the number of papers.

For Example -

Rs.2000/- Plus Rs.1600 End Term Exam Fees i.e., Total Rs.3600/- for one subject

Rs.4000/- (2000 x 2 subjects) Plus Rs.1600/- End Term Exam Fees i.e. Total Rs.5600/- for two subjects

8. The student is required to clear all pending tuition fees, whatever applicable for that semester apart from the above mentioned Repeat Semester of failed subjects fees and the End term exam fees.
9. If the student fails in a repeat exam, he/she will have to repeat the entire semester in future. The enrolment will be subject to the availability of the batch

### **Mandatory Documents for a Student during Examination**

Each student appearing for the examination (Online or Offline) must possess a valid Exam Hall Ticket and Identity Card issued by TISS SSE, bearing his/her recent photograph for easy verification of his/her identity and produces the same as and when demanded by an authorized person during examination. In absence of an ID Card (where the ID card has not been handed over to the student by TISS SSE), then only the student, in lieu of that, must carry Hall Ticket and other valid ID proofs bearing a photograph. e.g.: Aadhar Card, Driving License, Voter's ID etc.

## Conduct of Examination and Result Processing

### 1. Modes of Examination

- a. Pen Paper Mode
- b. Online Proctored Examination Mode

### 2. Pen Paper Mode

- *Mode of Written Examination:* Each student presenting himself/ herself at the specified center of examination shall be supplied the Question Paper and he/she shall have to write the answers on the answer book supplied by TISS SSE.
- *Mode of Practical Examinations:* The Examiners empaneled by TISS SSE shall conduct this examination, according to the teaching and examination schemes of the curricula. If the OJT books are not filled by the students, they will not be allowed to appear for the Examination.
- *Medium of Language during Viva-voce and Written Examination*  
Candidates appearing for an examination of TISS SSE shall have to write and communicate answers to the questions in written or oral examinations through the medium of **English language only**,

### b. Online Proctored Examination

These examinations could also be Online Proctored Examinations (with remote invigilators). Instead of visiting the examination centre, students are required to appear for these examinations from the Neutral Venue [i.e. study centre in their regional location].

Detailed guidelines on Online Examination for Students would be shared 15 days before the start of scheduled examinations and the mock test would be conducted.

### 3. Examination Structure

The examination structure for the Bachelor's semester examinations would be as follows: Each subject (Taught Skill Classes and Practical Skill Training\*) has an evaluation of 100 marks.

These 100 marks are having two components

#### a. End Term Examination

#### b. Internal Evaluation Marks. The weightage of the same are as follows:

- Taught Skill Classes: **100 marks** [(which would be converted into 70%), **Participants Work Book: 20 marks and Attendance: 10 marks**]
- Practical Skill Training\*: **100 marks** [(which would be converted into 70%), On-the- Job Training  
*Log Book: 20 marks and Attendance: 10 marks*]

The final marks will be given based on GPA system as explained in the table below: Subject	Credits	Marks	Taught classes Marks (100)	Taught classes Weightage (70%)	Work book (20)	Attendance (10) Work-book	Marks received	Grade points	Letter Grade	Result	
Weightage - Sem I and II			70 %		30%		100%				
Weightage - Sem III and IV			70 %		30%		100%				
Weightage - Sem V and VI			70 %		30%		100%				
Generic Sub 1	2	100	88	62	10	8	80	8.0	A+	PP	
Generic Sub 2	2	100	35	25	5	7	37	3.7	D	FS	
Domain Sub 1	2	100	54	38	12	6	56	5.6	B-	PP	
Domain Sub 2	2	100	80	56	8	4	68	6.8	B+	PP	
Domain Sub 3	2	100	33	23	10	5	38	3.8	D	FS	
Skill Practical	12	100	76	53	15	7	75	7.5	A-	PP	
Domain Project	Non Credit	-	<b>"Compulsory and Non-credit non-evaluative"</b>								CO

## Abbreviations

**Course Type:** M - Mandatory; O - Optional; Au - Audit; EC - Extra Credit;  
CBCS - Choice Based Credit System; NC - Non-Credit; CN - Compulsory &  
Non-Evaluation

**Result:** P - Pass; F - Fail; Ab - Absent; CO - Completed; NC - Not Completed

**Exam Status:** R - Regular; S1 - Supplementary 1; S2 - Supplementary 2; R - Re-  
evaluation; I - Improvement; Re - Repeat Course

**Semester Result** - PP - Passed and Promoted; FS - Failed and Allowed to Keep  
Semester; FR - Failed and Repeat Semester

Letter Grade	Grade Point	Percentage
O: Outstanding Performance	10	95 - 100
A+: Excellent	9	90 - 95
A: Very Good	8	80 - 90
B+: Good	7	70 - 80
B: Above Average	6	60 - 70
C: Average	5	50 - 60
Pass	4	40 - 50
Fail	3	Below 40
Absent	2	0

Note: 1. The Minimum Grade Point requirement for passing all courses/programmes is 4.0

2. The Formula for conversion from Grade Point to Percentage: Grade point x 10

Letter Grade, Grade Points & Equivalence of Percentage			
Letter Grade	Level of Performance	Grade Point Range	Percentage
O	Outstanding Performance-demonstrating high-level mastery and ability to apply concepts to new situations	9.5-10.0	95-100
A+	Excellent-demonstrating mastery of all learning or assessment situations	9.0-9.5	90-95
A	Very Good-demonstrating mastery of most learning or assessment situations	8.0-9.0	80-90
B+	Good-demonstrating thorough competence in most situations	7.0-8.0	70-80
B	Above Average-showing reasonably acceptable competence in some situations, minimal competence in others	6.0-7.0	60-70
C	Average Competence-demonstrating minimal competence in the most situations, while showing a considerable capacity for improvement in others	5.0-6.0	50-60
Pass	Below Average Competence-passing, but still showing some capacity for improvement or development	4.0-5.0	40-50
Fail	Unacceptable-Non-completion of assignments or blank responses in a test or blank answer sheets	Below 4.0	0
Note: 'C+' (4 or 40%) is the minimum grade for passing in an individual course including Field Work/ Internship/ Research Project. A minimum grade point average of 4.0 for each semester is required for passing.			

**c. Guidelines for Persons with Benchmark Disabilities:**

1. Permission for a writer would be granted to a candidate only if he/she is physically unable to write the answers and has been medically so certified, at the time of examination.
2. The facility of Scribe will be given to any person with benchmark disability as defined under section 2(r) of the RPwD Act, 2016, and has limitation in writing, including that of speed, if so desired by him/ her.
3. In case of persons with benchmark disabilities in the category of blindness, locomotor disability (both arms affected-BA), and cerebral palsy, the facility of a scribe(writer) shall be given, if so desired by the person.
4. The qualification of the scribe(writer) should be one step below the qualification of the candidate taking the examination, i.e, should not be more than the minimum qualification criteria of the examination. However, the qualification of the scribe should always be matriculate or above. The person with benchmark disabilities should submit details of the scribe as per the proforma issued by MoSJ&ETISS SSE.

5. The compensatory time should not be less than 20 minutes per hour of examination for persons who are allowed to use of scribe. All the students with benchmark disability not availing the facility of a scribe may be allowed an additional time of minimum of one hour for an examination of 3 hours duration.
6. For obtaining permission for the writer, the candidate or his parents shall apply to the TISS SSE in writing along with the medical certificate and supporting documents issued by a registered medical practitioner (seven days before the Exam).
7. Use of writer shall be limited to writing answers of theory papers only and shall exclude the practical skill of the candidate to be tested.
8. *Pursuit of Unfair Means*
  1. If a student is found copying/cheating in any assessment unit, he/she will be deemed to have failed in the course and will be required to appear for supplementary evaluation.
  2. If the same student is found copying/cheating in an assessment unit in any other following semester/s, he/she will be deemed to have withdrawn from the programme.
  3. If a student is found reporting falsely in the on Job training recordings, he/she will be deemed to have failed in the OJT and will be required to repeat the OJT in another KPST in the next academic year in consultation with the Dean/ Assistant Programme Head and SP coordinator.
  4. Following are some of the unfair means considered for penal actions. This is only an indicative, and not an exhaustive list of the types of unfair means considered actionable:
    - (i) Having in possession papers, books, notes or any other material or information relevant to the subject concerned in the examination hall during the examination;
    - (ii) Giving or receiving assistance of any kind or attempting to do so during the examination;
    - (iii) Contacting/talking or trying to contact/talk with any other person during the examination;
    - (iv) Copying/cheating in examinations, assignments and the project reports;
    - (v) Writing question(s) and/or answer(s) on any material other than the answer book given by the Hall Supervisor for writing the answers;
    - (vi) Tearing off the answer book, supplementary answer books, etc., or a part thereof;
    - (vii) Using or attempting to use any other undesirable method or means in connection with the examinations, e.g., using abusive language in the answer book, disclosing one's identity in the answer book by writing his/her name, for example;
    - (viii) Retaining/Keeping in/out or carrying away in an unauthorized way the answer book/objective type question paper;
    - (ix) Impersonation;
    - (x) Any other act amounting to serious misconduct

**d. Disciplinary Actions against Misconduct (Unfair Means)**

1. Warning for first the offence
2. Cancellation of examination in repeated instances
3. Rustication or disqualification from appearing in any examination of that semester
4. If the student leaves the examination hall before the stipulated time after start of the examination or either fail in that subject paper, in both these cases, the student needs to appear for supplementary 1 exam whenever scheduled.

**e. Internal Evaluation Policy**

**1. Assessment Unit:**

Each credited course of study, theory or OJT related, will be assessed through the following assessment unit types with prescribed weightage, as per a pre-defined schedule, which is provided at the commencement of a semester. These may involve individual or group work:

- i. Assignments/ Projects – which are held in the course of the semester, conducted as individual or group assessments.
- ii. Faculty assessment of Participant's Workbook.
- iii. Viva/Oral test or examination.
- iv. A student has to attempt each mode of assessment independently or either in the group.
- v. Non-submission of assignment/ Project will be treated as failed in the course and students will be given supplementary for that course after completion of all modes of assessment.

**2. Supplementary and Improvement:**

- i. Supplementary-1 and Improvement assessment will be announced along with the declaration of semester results.
- ii. Students will be eligible for supplementary-1, if they have failed in not more than two subjects, or if they have had to miss any examination for any valid reason (up to two subjects), or if they wish to improve their grades. However, the latest grade (whether improved or otherwise) would be considered for the formulation of the Grade Cards and would be treated as final.
- iii. The supplementary/improvement assessment will be conducted as per a prescribed schedule involving the submission of assignments/projects or examinations as prescribed for each subject.
- iv. If the student fails to complete a course satisfactorily through supplementary-1, then the student will be required to appear for Supplementary-2 as per the schedule announced.
- v. If student fails in the supplementary 2 Examination, he/she will be declared 'Failed and Repeat semester (FR) and has to appear for Repeat Exam 1 failed subjects (Minimum Two Subjects) along with the forthcoming main examination.
- vi. For all subject completed through supplementary-1 mode, an 'S1' will appear on the grade card, next to the grade. For all subject, where the grade is improved through improvement assessment, an 'I' will appear on the grade card next to the grade. For all subject completed through Supplementary-2 mode, an S2 will appear on the grade

card next to the grade.

- vii. Grades received through supplementary/improvement mode will not be considered for award of prizes and other mentions of academic achievement of the institute.

### 3. Repeat Examination:

- a. If the student fails in the supplementary 2 examination, he/she will be declared, failed and repeat semester (FR) and has and has to appear for 'Repeat Exam of failed subjects' (maximum two subjects along with the forthcoming main examination.
- b. The Fees to be paid to the Repeat Semester of failed subject (maximum 2 Nos.) along with its forthcoming main examination are Rs. 2000/- per subject plus its entire fees of end for examination
- c. i.e. 1600/- irrespective of the number of papers. For Example

Rs. 2000/- plus or 1600 end term fees i.e. Total Rs.3600/- for one subject and for two subjects, Rs.4000/- plus Rs. 1600/-. End Term exam fees i.e. total Rs.5600/- for two subject.

If the student fails in a repeat exam, he/she will have to repeat in the entire semester in future. The enrolment will be subject to the availability of the batch and student have to pay entire semester fee.

### 4. Re-evaluation

- A student, who desires to have a re-evaluation of his/her answer papers, or Practical Skill Training\* performance, shall be required to apply for re-evaluation within the stipulated time period communicated by TISS SSE after the declaration of results of the semester, by paying the requisite fees. Re-evaluation means verification of grades and/or reassessment of answer papers.

### 5. Withheld (WH) Results

- i. Students are ideally supposed to pay the fees before the commencement of the examination. However, students could be allowed to write the examination provisionally and pay the fees till the date the end term examination comes to an end. Failing the same their result will remain withheld (WH).
- ii. Students would be allowed to change withheld (WH) status by paying the remaining outstanding fees subsequently before Supplementary 1 and Supplementary 2 within the stipulated time period communicated by TISS SSE and continue with the same/current semester and can appear in the forthcoming end term examination.

Failing the same, even though the student can pay the fees after the stipulated time period i.e. after Supplementary 1 and Supplementary 2 examination and can know their results, however, the student can continue the programme only with the beginning of the next semester on the condition of availability of the batch.

#### **6. Name corrections on documents**

The candidates can apply for name correction in the marksheet and diploma certificate. However, the names must be as per the certificate of the passing of qualifying examination i.e. H.S.C. Board Certificate or any other qualifying examinations. If there is a change in any part of the name, it must get corrected immediately and an affidavit regarding the same need to be submitted to TISS SSE.

Name correction would not be entertained if reported after the issuance of the degree certificate.

#### **7. Award of Degree**

Students who have completed their Bachelor's programme of study will be awarded their degree at the Annual Convocation conducted by TISS SSE.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		Bachelor/B.Voc. in Agriculture						Bachelor in Automotive Servicing Technology						Bachelor in Renewable Energy Technology					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
<b>FEE</b>	<b>Tuition Fee</b>	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800
	<b>Examination Fee</b>	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	<b>IT Charges</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Certification Charges</b>	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	<b>Lab/Studio Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Development Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Alumni Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Health Care Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	<b>Caution Deposit (Refundable at the time of exit from programme on submission of No Dues Certificate)</b>	5,000	0	0	0	0	0	5,000	0	0	0	0	0	5,000	0	0	0	0	0
	<b>Semester Wise Course Fee</b>	26,400	21,400	21,400	21,400	21,400	23,900	26,400	21,400	21,400	21,400	21,400	23,900	26,400	21,400	21,400	21,400	21,400	23,900
	<b>Yearly Fee</b>	47,800		42,800		45,300		47,800		42,800		45,300		47,800		42,800		45,300	
	<b>Total Course Fee</b>	1,35,900						1,35,900						1,35,900					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		Bachelor in Banking, Financial Services and Insurance						Bachelor in Mechatronics Technology						Bachelor in Retail Management (The Retail Ready Programme)					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
<b>FEE</b>	Tuition Fee	24,000	24,000	24,000	24,000	24,000	24,000	19,800	19,800	19,800	19,800	19,800	19,800	26,400	26,400	26,400	26,400	26,400	26,400
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	Caution Deposit (Refundable at the time of exit from programme on submission of No Dues Certificate)	5,000	0	0	0	0	0	5,000	0	0	0	0	0	5,000	0	0	0	0	0
	Semester Wise Course	30,600	25,600	25,600	25,600	25,600	28,100	26,400	21,400	21,400	21,400	21,400	23,900	33,000	28,000	28,000	28,000	28,000	30,500
	Yearly Fee	56,200		51,200		53,700		47,800		42,800		45,300		61,000		56,000		58,500	
	Total Course Fee	1,61,100						1,35,900						1,75,500					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		Bachelor in Production Technology						Bachelor in Industrial Tools Manufacturing						Bachelor in Automotive Manufacturing Technology					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
FEE	Tuition Fee	19,800	19,800	19,800	19,800	19,800	19,800	18,000	18,000	18,000	18,000	18,000	18,000	19,800	19,800	19,800	19,800	19,800	19,800
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
CHARGES	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
FUNDS	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEPOSITS	Cauton Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)	5,000	0	0	0	0	0	5000	0	0	0	0	0	5,000	0	0	0	0	0
	Semester Wise Course	26,400	21,400	21,400	21,400	21,400	23,900	24,600	19,600	19,600	19,600	19,600	22,100	26,400	21,400	21,400	21,400	21,400	23,900
	Yearly Fee	47,800		42,800		45,300		44,200		39,200		41,700		47,800		42,800		45,300	
	Total Course Fee	1,35,900						1,25,100						1,35,900					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		Bachelor in Electronic Manufacturing Services						Bachelor in Office Automation						Bachelor in Refrigeration and Air Conditioning					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
<b>FEE</b>	Tuition Fee	16,500	16,500	16,500	16,500	16,500	16,500	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	Caution Deposit (Refunda- ble at the time of exit from programme on submission of No dues Certificate)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Semester Wise Course	23,100	18,100	18,100	18,100	18,100	20,600	24,600	19,600	19,600	19,600	19,600	22,100	24,600	19,600	19,600	19,600	19,600	22,100
	Yearly Fee	41,200		36,200		38,700		44,200		39,200		41,700		44,200		39,200		41,700	
	Total Course Fee	1,16,100						1,25,100						1,25,100					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		BSc in Medical Imaging Technology						BSc in Medical Laboratory Technology						B. Optom (Bachelor of Optometry)							
		Semester						Semester						Semester							
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI	VII	VIII
FEE	Tuition Fee	26,400	26,400	26,400	26,400	26,400	26,400	27,000	27,000	27,000	27,000	27,000	27,000	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
CHARGES	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	0	0	2500
FUNDS	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEPOSITS	Cautions Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)	5000	0	0	0	0	0	5000	0	0	0	0	0	5000	0	0	0	0	0	0	0
	Semester Wise Course	33,000	28,000	28,000	28,000	28,000	30,500	33,600	28,600	28,600	28,600	28,600	31,100	33,000	28,000	28,000	28,000	28,000	28,000	28,000	30,500
	Yearly Fee	61,000		56,000		58,500		62,200		57,200		59,700		61,000		56,000		56,000		58,500	
	Total Course fee	1,75,500						1,79,100						2,31,500							

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		BSc in Dialysis Technology						Bachelor in Travel and Tourism						BSc in Patient Care Management with specialisation in Palliative Care & Geriatric Care					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
<b>FEE</b>	Tuition Fee	26,400	26,400	26,400	26,400	26,400	26,400	19,800	19,800	19,800	19,800	19,800	19,800	25,400	25,400	25,400	25,400	25,400	25,400
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	1,000	1,000	1,000	1,000	1,000	1,000
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	Caution Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)	5000	0	0	0	0	0	5000	0	0	0	0	0	5000	0	0	0	0	0
	Semester Wise Course	33,000	28,000	28,000	28,000	28,000	30,500	26,400	21,400	21,400	21,400	21,400	23,900	33,000	28,000	28,000	28,000	28,000	30,500
	Yearly Fee	61,000		56,000		58,500		47,800		42,800		45,300		61,000		56,000		58,500	
	Total Course Fee	1,75,500						1,35,900						1,75,500					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		Bachelor in Hotel Management (General & Golden Threshold programme)						Bachelor/BSc in Software Development						Bachelor in Graphics and Multimedia					
		Semester						Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	VI	V	VI
FEE	Tuition Fee	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
CHARGES	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500	0	0	0	0	0	2500
FUNDS	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEPOSITS	Caution Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)	5000	0	0	0	0	0	5000	0	0	0	0	0	5000	0	0	0	0	0
	Semester Wise Course	33,000	28,000	28,000	28,000	28,000	30,500	33,000	28,000	28,000	28,000	28,000	30,500	33,000	28,000	28,000	28,000	28,000	30,500
	Yearly Fee	61,000		56,000		58,500		61,000		56,000		58,500		61,000		56,000		58,500	
	Total Course Fee	1,75,500						1,75,500						1,75,500					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**

**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		BSc in Artificial Intelligence and Machine Learning						B.Sc. In Manufacturing Technology (Pharmaceutical Chemistry)					
		Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI
<b>FEE</b>	Tuition Fee	30,000	30,000	30,000	30,000	30,000	30,000	21,000	21,000	21,000	21,000	21,000	21,000
	Examination Fee	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	IT Charges	0	0	0	0	0	0	0	0	0	0	0	0
	Certification Charges	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	Lab/Studio Fund	0	0	0	0	0	0	0	0	0	0	0	0
	Development Fund	0	0	0	0	0	0	0	0	0	0	0	0
	Alumni Fund	0	0	0	0	0	0	0	0	0	0	0	0
	Health Care Fund	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	Caution Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)	5000	0	0	0	0	0	5000	0	0	0	0	0
	Semester Wise Course	36,600	31,600	31,600	31,600	31,600	34,100	27,600	22,600	22,600	22,600	22,600	25,100
	Yearly Fee	68,200		63,200		65,700		50,200		45,200		47,700	
	Total Course Fee	1,97,100						1,43,100					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR BACHELOR'S DEGREE PROGRAMMES (2025-2026)**

Components		B.Sc. In Pharmaceutical Manufacturing						Bachelor's in Applied Social Research					
		Semester						Semester					
		I	II	III	IV	V	VI	I	II	III	VI	V	VI
<b>FEE</b>	<b>Tuition Fee</b>	21,000	21,000	21,000	21,000	21,000	21,000	30,000	30,000	30,000	30,000	30,000	30,000
	<b>Examination Fee</b>	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
<b>CHARGES</b>	<b>IT Charges</b>	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Certification Charges</b>	0	0	0	0	0	2500	0	0	0	0	0	2500
<b>FUNDS</b>	<b>Lab/Studio Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Development Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Alumni Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Health Care Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	<b>Caution Deposit (Refundable at the time of exit from programme on submission of No dues Certificate)</b>	5000	0	0	0	0	0	5000	0	0	0	0	0
	<b>Semester Wise Course</b>	27,600	22,600	22,600	22,600	22,600	25,100	36,600	31,600	31,600	31,600	31,600	34,100
	<b>Yearly Fee</b>	50,200		45,200		47,700		68,200		63,200		65,700	
	<b>Total Course Fee</b>	1,43,100						1,97,100					

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

**TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS**  
**FEE STRUCTURE FOR POST GRADUATE DIPLOMA PROGRAMMES (2025-2026)**

Components		PG Diploma in Banking, Financial		PG Diploma in Cyber Security		PG Diploma in Logistics with Specialisation in Drones Operation		PG Diploma in Logistics with Specialisation in Supply Chain Management		PG Diploma in HR & Administration		Post Graduate Diploma in Food Technology		PG Diploma in Medical Laboratory Technology		PG Diploma in Training and Development	
		Semester		Semester		Semester		Semester		Semester		Semester		Semester		Semester	
		I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
<b>FEE</b>	<b>Tuition Fee</b>	48,000	48,000	80,000	80,000	80,000	80,000	60,000	60,000	60,000	60,000	54,000	54,000	60,000	60,000	60,000	60,000
	<b>Examination Fee</b>	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
<b>CHARGES</b>	<b>IT Charges</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Certification Charges</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FUNDS</b>	<b>Lab/Studio Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Development Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Alumni Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Health Care Fund</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DEPOSITS</b>	<b>Caution Deposit (Refundable at the time of exit from programme on submission of No dues certificate)</b>	5,000	0	5,000	0	5,000	0	5,000	0	5,000	0	5,000	0	5,000	0	5,000	0
	<b>Semester Wise Course</b>	55,500	50,500	87,500	82,500	87,500	82,500	67,500	62,500	67,500	62,500	61,500	56,500	67,500	62,500	67,500	62,500
	<b>Total Course Fee</b>		1,06,000	1,70,000	1,70,000	1,70,000	1,70,000	1,30,000	1,30,000	1,30,000	1,30,000	1,18,000	1,18,000	1,30,000	1,30,000	1,30,000	1,30,000

Institute reserves the right to revise the Fee Structure of programmes, if necessary.

TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS FEE STRUCTURE FOR POST GRADUATE DIPLOMA PROGRAMMES (2025-2026)					
Components		Post Graduate Diploma in Logistics with Specialisation in Data Science		Post Graduate Diploma in Digital Marketing	
		Semester		Semester	
		I	II	I	II
<b>FEE</b>	<b>Tuition Fee</b>	60,000	60,000	60,000	60,000
	<b>Examination Fee</b>	2,500	2,500	2,500	2,500
<b>CHARGES</b>	<b>IT Charges</b>	0	0	0	0
	<b>Certification Charges</b>	0	0	0	0
<b>FUNDS</b>	<b>Lab/ Studio Fund</b>	0	0	0	0
	<b>Development Fund</b>	0	0	0	0
	<b>Alumni Fund</b>	0	0	0	0
	<b>Health Care Fund</b>	0	0	0	0
<b>DEPOSITS</b>	<b>Caution Deposit (Re- fundable at the time of exit from programme on submission of No dues certificate )</b>	5,000	0	5,000	0
	<b>Semester Wise Course</b>	<b>66,600</b>	<b>61,600</b>	<b>66,600</b>	<b>61,600</b>
	<b>Total Course Fee</b>	<b>1,28,200</b>		<b>1,28,200</b>	
Institute reserves the right to revise the Fee Structure of programmes, if necessary.					

TISS SCHOOL OF SKILL EDUCATION, MUMBAI CAMPUS FEE STRUCTURE FOR DIPLOMA PROGRAMMES (2025-2026)					
Components		Diploma in Agriculture & Agri Input Management		Diploma in Operation Theatre Techniques	
		Semester		Semester	
		I	II	I	II
<b>FEE</b>	<b>Tuition Fee</b>	<b>15,000</b>	<b>15,000</b>	<b>24,000</b>	<b>24,000</b>
	<b>Examination Fee</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>
<b>CHARGES</b>	<b>IT Charges</b>	0	0	0	0
	<b>Certification Charges</b>	0	0	0	0
<b>FUNDS</b>	<b>Lab/ Studio Fund</b>	0	0	0	0
	<b>Development Fund</b>	0	0	0	0
	<b>Alumni Fund</b>	0	0	0	0
	<b>Health Care Fund</b>	0	0	0	0
<b>DEPOSITS</b>	<b>Caution Deposit (Re- fundable at the time of exit from programme on submission of No dues certificate)</b>	5,000	0	5,000	0
	<b>Semester Wise Course</b>	<b>21,600</b>	<b>16,600</b>	<b>30,600</b>	<b>25,600</b>
	<b>Total Course Fee</b>	<b>38,200</b>		<b>56,200</b>	
Institute reserves the right to revise the Fee Structure of programmes, if necessary.					



**TATA INSTITUTE OF SOCIAL SCIENCES**

A Deemed to be University and Grant-in-Aid Institute under Ministry of Education, GoI

**SCHOOL OF SKILL EDUCATION**