

TRAINING & PLACEMENT CELL



**WOMEN'S POLYTECHNIC
HAPANIA, P.O. AMTALI VIA SEKEREKOTE
WEST TRIPURA – 799130
PHONE: 0381-2376814**

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VISION

The Training & Placement Cell envisages student empowerment and career building through technical education integrated with personality development and professional etiquette.

MISSION

- a) To provide placements and internships to all the interested passing-out candidates of the Institute.
- b) To organize Training programs, Workshops, Seminars, Industry interactions, Industrial trainings, and visits to prominent Institutes of excellence and industries for development of desired skills essential for suitable job profile/higher education/self-employment/entrepreneurial projects.
- c) To co-ordinate for conducting Faculty Development Programs (FDP) and Staff Development Programs (SDP) for overall improvement in students' performance through the skill development of the faculties and staffs.
- d) To encourage the students in the Entrepreneurship Development area with a view to make them Job-Creators.

DETAILS OF TRAINING & PLACEMENT OFFICER

Name: Dr. Manash C. Das

Designation: Lecturer (Sr. Scale)

Department: Department of Medical Laboratory Technology

ACTIVITIES OF TRAINING & PLACEMENT CELL

- Communicating with industries/organizations for arranging placement opportunities for the students both through IN campus recruitment, pooled campus or OFF campus recruitments.
- Arranging industrial training for students in industries during summer vacations/ winter vacations / semester breaks.
- Organizing skill-based trainings, workshops, seminars.
- Organizing visits to industries and educational institutes of excellence.
- Arranging Internship of the Students (i.e., Apprenticeship training for one year during which the trainee is paid fixed amount of stipend).
- Maintaining Track Record of the pass-out students.
- Organizing in-house training programmes and workshops for Faculties and staffs.

TRAINING PARTNERS

- Airport Authority of India
- All India Radio
- BSNL
- Directorate of Health Services, Government of Tripura
- Directorate of Information Technology, Government of Tripura
- Doordarshan
- Dr. Lal's Path lab
- Dept. of Handloom, Handicrafts and Sericulture, Govt. of Tripura
- ICT Academy
- ILS Hospital, Agartala
- Satyaranjan Memorial Diagnostic Centre, Agartala
- Sonic Diagnostic Centre, Agartala
- NIC Agartala
- NIT Agartala
- NIELIT Agartala
- Senrysa Technologies Pvt. Ltd., Agartala.
- Teresa Diagnostic Centre, Agartala
- Tripura Medical College and Dr. BRAM Teaching Hospital
- Tripura State Forensic Science Laboratory, Govt. of Tripura
- National Institute of Fashion Technology, Kolkata
- Weaver's Service Centre, Govt. of Tripura

RECENT ACTIVITIES

- Organized several in-house faculty development programmes for the faculties of Women's Polytechnic wherein faculties of other institutes of the state also get the opportunity to participate.
- Arranged educational visits for students to institutes of excellence.
- Facilitated in-house Employability Enhancement Training Programme conducted by the ICT Academy for the students.
- Organized one month industrial training for the students at various organizations.
- Organized one day seminar on "Cyber Security and Cyber Forensic" for faculties and students by inviting resource persons from various organizations.
- Organized 2 days' workshop on "Cyber Security and Cyber Forensic" for faculties and students by engaging industry experts.
- Facilitated off-campus recruitment drive to the final year passing-out students, who have passed out in 2018, during the Mega Job Fair organized by ICT Academy.
- Organized Faculty Development Programme on "Nanotechnology and its Applications".
- Organized Staff Development Programme on "Office management, Accounting and Tendering process".
- Organized educational visits to NIT Agartala for the students of Internet Technology and Computer Science Technology students.
- Organized visit to Bamboo & Cane Development Institute, Agartala, for the students.
- Facilitated the online "Wheebox Employability Skill Test" for the final year students.
- Arranged 1(one) year apprenticeship training for interested pass-out students of Medical Lab Technology department.
- Organized an in-campus personal interview for pass-out students of Fashion Technology Dept. whereby 2 (two) candidates have been selected by the National Skill Training Institute, Agartala, as Guest Faculties.
- Communicated with the SRL Diagnostics for conducting in-campus interview for Medical Lab Technology pass-outs.

CONSTITUTION OF TRAINING & PLACEMENT CELL AS PER RECENT ADVICE OF THE DIRECTORATE OF HIGHER EDUCATION

Chairman: Dr. Tirtharaj Sen, Principal

Training and Placement Co-ordinator: Dr. Manash C. Das, Lecturer (Sr. Scale), Dept. of MLT.
Mobile: 9774788452 ; Email: manashmbt@gmail.com

SL. NO	BRANCH	FACULTY MEMBER	STUDENT CO-ORDINATOR
1	Information Technology	Mrs. Lily Debbarman Mobile: 9485075610 Email: lilydebbarman@gmail.com	Ms. RoshniDatta Choudhury Roll no.: 31/IT/19/10 Mobile: 7629039560 (WhatsApp) 7005767262 Email: roshnidattachoudhury@gmail.com
2	Fashion Technology	Ms. SutapaSaha Mobile: 9856686740 Email: stpsaha2@gmail.com	Ms. AradhanaShil Roll no.: 31/FT/20/01 Mobile: 8794569144 Email: aradhanashil15@gmail.com
3	Medical Lab Technology	Mrs. RajasreeDebbarma Mobile: 7005977738 Email: rajasreedb@gmail.com	Ms. AnamikaDebnath Roll No.: 31/MT/19/11 Mobile: 7642941016 (whatsApp) 7005835582, 8730040418 Email: anamikadebnath1234@gmail.com
4	Computer Science and Technology	Ms. Sheela Debbarma Mobile: 8731042662 Email: sheeladebbarma.2662@gmail.com	Ms. DebankitaMukhapadhyay Roll no.: 31/CS/19/11 Mobile: 8259940053(WhatApp), 8259039585 Email: 20122000bm@gmail.com
5	Electronics and Tele-comm. Engineering	Mr. Bappaditya Sarkar Mobile: 9862122889 Email: bappastar@gmail.com	Ms. ChameliReang Roll no.: 31/ET/19/20 Mob: 8974505049 Email: chamelireang4638@gmail.com

Supporting staff

1. Mr. Arup Das- Group-C Staff, Mobile: 8787529721
2. Mr. BiswajitDebbarma- Group-D Staff

DEPARTMENT OF INFORMATION TECHNOLOGY

VISION

The department of Information Technology envisions in creating nurtured, groomed, technically competent and skilled diploma pass-outs, both from the urban and the rural areas of Tripura so as to raise the women folk to meet the current challenges of the modern computing world. It is committed to provide utmost exposure to the students and bring about an excellence in the arena of academics.

MISSION

- a) To cater to the educational needs of the girl students of the state for empowering the women folk.
- b) To uplift the students of rural areas and ensure them bright future.
- c) To provide technical skills as per the curriculum and equip them efficiently.
- d) To provide state-of-the-art facilities and laboratories for enhancement of technological knowledge.
- e) To imbibe the students with enthusiasm to yearn for life-long learning, acquiring and sharing knowledge.
- f) To expose the ethics of information technology, cyber laws and social awareness.
- g) To encourage students for performing extra-curricular activities, research and developmental activities.

MESSAGE OF HOD

I welcome all the students and their parents to the department of Information Technology. Information Technology is the technology which can be treated as the creator of today's virtual world. We are committed to providing not only the technical education related to the course curriculum to our students but also the qualities through which they can generate self-employment.

Women's Polytechnic has been established in the year 2003 with only one department i.e. IT as its founding pillar to spread the awareness among the girl students in Tripura with an objective that girls can also contribute in the area of IT. Our vision is to provide a safe & up-to-date teaching environment for our students so that, they can groom themselves not only as a good professional but also a socially conscious & sensitive human being.

IT department not only emphasis in the curriculum but also conducts soft skill training programs, outdoor industry visits, seminars whenever possible which helps the students to be professionally ready.

The department has a team of highly experienced & self-motivated faculty members who always helps the students in their every success and failure. Above all the departments always tries to provide latest technologies and equipment in the laboratory so that, the faculties as well as students gets best.

I congratulate to the team of faculty members and the students for their unconditional and spontaneous supports. I wish a great academic carrier to all the students & faculty member in Women's Polytechnic and a great future for Department of Information Technology.

Warm Regards.

HOD (In-Charge)
Information Technology Department
Women's Polytechnic

ABOUT INFORMATION TECHNOLOGY DEPARTMENT

The department of Information Technology in Women's Polytechnic has shaped itself to meet all the real-time challenges and prepare skilled professionals in the sector of ICT as well as IT by introducing latest technological advancement in teaching methodology, student's participation in soft skill training programs and project work. The institute is running a diploma course in Information Technology. The course curriculum has been prepared by the Tripura University to fulfil the growing global outlook and meet the requirement of today's need of skilled professionals.

To achieve the above the department has 3(three) nos. of computer laboratories with internet and LAN connectivity the houses nos. of latest desktop computers. Various subjects such as Software Engineering Lab, Java Lab, Multimedia Lab, Visual Studio lab, C& C++ Lab, Web technology lab, DBMS Lab, networking lab etc. are been taught in theses laboratories.

The department has well qualified and experienced faculties, who possesses the ability to guide, motivate and prepares students, so that, they can perform to their fullest. The department also motivates all the faculties to organise & participate in various conferences, workshops, seminars, teacher training programs etc. The department also has its departmental library that has sufficient amount of titles.

The department also conducts soft skill training programs, outdoor industry visits, seminars, so that the students get real time exposure.

COURSE CURRICULUM OF INFORMATION TECHNOLOGY DEPARTMENT

In Women's polytechnic we offer 3 years Diploma Engineering in Information Technology. The course is affiliated to Tripura University (A central university) .The intake capacity of IT department is 30 every year. The major subjects of 3years Diploma Engineering in Information Technology are:

1. Engineering Physics
2. Engineering Chemistry
3. Engineering Mathematics
4. Elements of IT
5. English Communications
6. Operating System
7. Electronics Device & circuit
8. Computer Organization
9. Data Structure & Algorithm
10. Data communication & Computer Network
11. Object Oriented Programming Methodologies
12. Database Management System
13. Software Engineering
14. Communication Engineering
15. Software Project Management
16. Java Programming Lab
17. E-Commerce Lab
18. Web Technology lab
19. C Programming lab
20. Object Oriented Programming Lab etc.

INTERNSHIP AND EXTRACURRICULAR ACTIVITIES BY STUDENTS

To motivate students make the students industry ready, students of Information Technology departments are send to various organisations for visits and training such as:

1. **NIELIT:** The National Institute of Electronics & Information Technology (NIELIT) Agartala Centre (Formerly RIELIT, Agartala) is the 11th Centre of NIELIT (formerly DOEACC Society) in the country and the 5th in the North-Eastern Region. NIELIT is an autonomous body of the Department of Information Technology (DIT), Ministry of Communications & Information Technology, Govt. of India. NIELIT Agartala Centre is aimed to facilitate the youth of Tripura to have easy access to education and training in the field of computer science and Information technology in a well-equipped state- of -the -art training infrastructure with qualified & trained faculty members, resulting in generation of quality and employable manpower.
2. **BSNL:** Bharat Sanchar Nigam Ltd. was incorporated on 15th September 2000 . It took over the business of providing of telecom services and network management from the erstwhile Central Government Departments of Telecom Services (DTS) and Telecom Operations (DTO), with effect from 1st October‘2000 on going concern basis. It is one of the largest & leading public sector units providing comprehensive range of telecom services in India.
3. **NIT, Agartala(Dept. of CSE):** The Department of Computer Science and Engineering of National Institute Of Technology Agartala offers an undergraduate and postgraduate Programme in Computer Science and Engineering where students are encouraged to acquire knowledge facilities with an integrated thinking about education research & development, application and training.
4. **NIC:**
5. **AIRPORT Authority of Agartala:** The Airports Authority of India or AAI under the Ministry of Civil Aviation is responsible for creating, upgrading, maintaining and managing civil aviation infrastructure in India. It provides Air traffic management (ATM) services over Indian airspace and adjoining oceanic areas. The Government of India constituted the International Airports Authority of India (IAAI) in 1972 to manage the nation's international airports while the National Airports Authority (NAA) was constituted in 1986 to look after domestic airports.
6. **Dept. of Information Technology, govt. of Tripura:** Directorate of Information Technology under Industries & Commerce Department was formed in the year 1999 to initiate IT Activities in serious manner. With the vision to have a better management of projects, a society namely ‘Tripura State Computerization Agency’ was formed in the year 2001.
7. **Doordarshan kendrya Agartala:** DD Tripura is a state owned TV channel telecasting from Doordarshan Kendra Agartala in Tripura. DD Tripura was launched in 1994 (as Doordarshan Kendra Tripura) by PrasarBharati. It is available in India and parts of Asia ,China and Gulf Countries.
8. **Tripurainfo.com:** Tripurainfo.com a company registered under the companies Act,1956, as limited company established in May 2001. It is a web service provides emergency dial for Agartala, Placement

and Development, Higher studies Information, Tripurainfo.com call center, Website Design and Development, Domain Registration and Software Development.

9. **Senrysa Technologies Pvt. Ltd.:** Senrysa Technologies is a multi-skilled software service provider with a highly competent work force. With years of honed expertise in cross-platform skills and quality-integrated methodologies, Senrysa adopts a competent delivery model in providing value based solutions to clients nationwide. Senrysa brings to clients the best of both worlds: the savings and superior quality of IT solution, and the immediacy and trust of a local company.

LABORATORY FACILITIES

Laboratory classes are conducted in the Central Computer laboratories of the Institute.

- Following 03 Nos. of Central Computer laboratories are accessed by the Department, viz.,
 - i. Software Engineering Lab
 - Programming in C Lab
 - Object-Oriented Programming Lab
 - Data Structure Lab
 - Web Technology Lab
 - JAVA Programming Lab
 - Database Management System Lab
 - Advanced Java Lab
 - ii. Advance Computation Lab
 - Multimedia Lab
 - Operating System Lab
 - Network Lab
 - PC Utility Lab
 - E-Commerce Lab
 - iii. Programming Lab
 - Computer Graphics Lab
 - Visual Basic Lab
 - Software Project Management Lab
 - Project

In addition to these laboratories, students also access laboratories of Electronics & Telecommunication Department for electronics related technical skills.

- iv. Electronics Lab – I
 - Electronics Devices & Circuit Lab
 - Communication Engineering – I Lab
- v. Electronics Lab – II
 - Digital Logic Design Lab

DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY

VISION

Department of Medical Laboratory Technology aspire for creating highly skilled laboratory technicians to meet the ever increasing requirements of health and biotech sector industry comprising of government and private sector by incorporating up-to-date curriculum and extensive hands-on training.

MISSION

1. To generate medical laboratory and biotechnological facility in laboratories to cater skills to students.
2. To well acquaint students with sophisticated techniques and skills.
3. To develop as State-of-Art department of its kind to generate employable pass-outs.

MESSAGE FROM HOD

The Department of Medical Laboratory Technology is striving to provide quality education and it is my absolute pleasure to inform one and all that Diploma in Medical Laboratory Technology has become one of the most sought-after courses among students opting for post metric technical studies. Today when we speak about industry relevant skills , R&D and innovation I am delightful to inform that the Dept. of MLT is constantly working on imparting most advanced biomedical and diagnostic know how to its students. We all are aware that now is the time for interdisciplinary approach in academics as well as industry for better & sustainable outcome. A synergy among Science , Engineering & Technology is imperative for holistic development which is reflected in the curriculum , syllabus & teaching of the department. As a result we have the opportunity to take great pride to share with you all that the lion's share of the skilled paramedics serving our state Tripura in various hospitals are alumnus of this Department. The Department actively peruse objective based R&D through dissertations, projects & works on generating intellectual property despite its limitations. Many of our pass out Students have enrolled for higher education in prestigious Universities of the country after qualifying competitive entrance examinations. With co-operation from all the stake holders including parents and guardians the Dept. of MLT has potential to stand out in every field. I personally invite co-operation and constructive suggestions that would propel Dept. of MLT towards excellence. We aspire for becoming a world class facility for Biomedical, Life Sciences & allied technology through amalgamation of innovation and training for generating employable & skilled human resource.

With warm Regards.

HOD (In-Charge)
Department of Medical Laboratory Technology
Women's Polytechnic,
Hapania, Tripura.

BRIEF DESCRIPTION ABOUT THE DEPARTMENT

The Department of MLT have dedicated laboratories for Clinical Biochemistry, Protein Technology, Immunology, Biomedical Instrumentation, Clinical Microbiology, Histopathology & so on which are utilized for training of the students by the competent faculties. Our smart class rooms enable use of digital aids and audio visual resources for easy comprehension of concepts and methodologies. Having said that, it may be noted that the conventional Chalk –Black board teaching is not in back-foot, rather much used for one to one interaction in a class. Our faculties undergo regular training through Quality Improvement Programs and one of the faculties have recently received Ph.D degree. All our Laboratories are equipped with modern facilities (described in later section) and the labs have generated several publications in indexed journals and proceedings. Inter academia interaction of the Dept. of MLT through engaging external examiners from NIT & Tripura University in previous years have ascertained about the quality teaching & sufficient laboratory exposure of the students. Department faculties have been invited as resource persons in National and International Workshops & Conferences conducted by National Level Institutes & Central universities in various states of India besides participating in academic events. Faculties received multiple National Level Grants from Government of India for International Research exposure in various European and Asia pacific countries. With addition of new instruments and up-gradation of the institute library the Department of Medical Laboratory Technology is buzzing with enthusiasm.

COURSE CURRICULUM OF THE DEPARTMENT

Medical Laboratory Technology comprises of total four semester of core subject exposure to the students. In the first year itself students receive initial sensitization through workshop practice of basic bio-molecular concepts.

3rd Semester papers are introductory in nature that deals with Basic Biochemistry, Biophysics, Anatomy & Physiology with Labs for each subject. Hospital Management & Biomedical Instrumentation are also taught.

4th & 5th Semesters are seasoning semesters where students receive intensive training on Clinical Biochemistry, Analytical Chemistry, Medical Microbiology & histopathology, besides humanities & management subjects. Industrial Training as well as Project work during the 5th Semester infuses industry relevant skills in the students and during this time students are expected to embrace the super speciality subjects such as Immunology & Modern Medical Diagnostics. Similarly during the 6th & the final semester students are required to submit their projects and also undergo training in Protein Technology, Quality Control and Cell–Molecular Biology with other allied subjects.

LABORATORY FACILITIES

Students of the department get enough chance to have training and well acquaint themselves in skills of following laboratories. These are-

- Biochemistry Lab

- Biophysics Lab
- Protein Technology Lab
- Immunology Lab
- Modern Medical Diagnostics Lab
- Microbiology Lab
- Hematology Lab
- Histopathology & Biopsy Lab
- Anatomy and Physiology Lab
- Analytical Chemistry Lab
- Clinical Biochemistry Lab
- Parasitology Lab
- Etc.

MAJOR INSTRUMENTAL FACILITY AVAILABLE IN LABORATORIES

- Bio-safety Cabinet – 2 nos
- Autoclave – 4 nos
- Laminar Airflow Unit – 2 nos
- Vertical Gel Electrophoresis Unit – 2 nos
- Horizontal Gel Electrophoresis Unit – 2 nos
- Transilluminator – 1 no
- Double Beam UV-Vis Spectrophotometer – 1 no
- High Resolution Camera Microscope – 1no
- Trinocular Microscope – 1 no
- Binocular Microscope – Multiple
- ELISA Reader and washer – 1 no
- Microtome – 1 no
- BOD Incubator – 1 no
- Digital weighing machine – 3 nos
- 37⁰C Incubator – 3 nos
- 2-8⁰C Refrigerator – 2 nos
- Colorimeter – 3 nos
- Semi Auto Analyser – 2 nos
- Vortex Mixture – 3 nos
- Bed Side Monitor – 1 no
- BP Machine – 4 nos
- Chymograph – 1 no
- Blood sugar monitor – 2 nos
- Body weight measurement machine – 2 nos
- Etc.

INTERNSHIPS AND EXTRACURRICULAR ACTIVITIES OF STUDENTS

Students of DMLT undergo compulsory internship as per the curriculum and also undergo industrial training either in a corporate or in a public sector organization. Students undergo internship / training in flagship organizations of the state through enrolment in the Government Agency and receives stipend.

The major Organization in which MLT students have undergone Internship are:

- IGM Hospital, Agartala, Tripura - A heritage hospital in this region with ample opportunity for real time exposure for students of MLT.
- Tripura Medical College & Dr. BRAM Hospital, Hapania, Agartala - An well known tertiary care centre cum medical college, where students can interact with academicians as well.
- Tripura State Forensic Science Laboratory, Agartala - A functional laboratory that houses many advanced labs and equipments for training.
- ILS Hospital, Agartala - A private sector organization that would expose students to a corporate environment of health care industry.
- State Biotech Hub, Tripura University
- College of Fisheries, Lembuchera, Agartala
- College of Agriculture, Lembuchera, Agartala
- Department of Molecular Biology & Bioinformatics, Tripura University
- Teresa Diagnostic Centre, Agartala
- Sonic Diagnostic Centre, Agartala
- Satyaranjan Memorial Diagnostic Centre, Agartala

Besides this, students of the Department of Medical Laboratory Technology has also presented Research Paper in Dept. of Science & Technology, Government of Tripura sponsored State Level Project competition and received applause for being the youngest group of participants in addition to receiving a monetary prize in the form of IRG. These activities certainly boosts academic moral in students.

Students of the Department of MLT have undergone laboratory visits and actively engaged in practical lectures in reputed laboratories in the state, like State Biotech hub in Tripura University. Moreover, MLT students have participated in Institute level awareness campaigns on Disaster Management, Legal Awareness, Health& Hygiene etc as NSS volunteers. Students have actively participated in State level events sponsored by State Blood Transfusion Council, Tripura AIDS Control Society etc. Students of MLT also regularly participate in the institutional events like Quizzes, Poster Competitions, Yoga workshops, Swacch Bharat Abhijaans, NSS Camps, Annual Sports etc.

VISION

The vision of Computer Science & Technology department is to take part in the societal transformation in the state and country as well, through the women empowerment in the area of computer science and interdisciplinary subjects as per the modern cutting edge technology.

MISSION

1. To produce technically competent and skilled women power to meet the current demand of computing industry.
2. To become a centre of technical knowledge and resources in the arena of computer applications.
3. To provide exposure of latest tools and technologies in the area of computer science and technology.
4. To provide a learning environment that helps students to be a life-long learner by offering a strong foundation in computing field.
5. To educate students about their professional and ethical responsibilities towards industry and society.
6. To become a center of excellence in the arena of technical knowledge and its application.

MESSAGE FROM HOD

I do welcome all the students & parents/guardians of the Department of Computer Science and Technology of WP. The Department is committed to provide the technical education to our students and also to impart the leadership qualities through which they can contribute something to the society. With a vision of Computer Science & Technology department to take part in the societal transformation in the state and country as well, the Department focuses on development of the students by both the curricular and extracurricular activities because, I believe that developing mind of students require learning beyond class rooms. The Department has a team of experienced and motivated faculty members, who adopt effective methods of teaching and learning process including practical activities. The Department has an adequate infrastructure and computing facilities to cater to the needs of Diploma level students. I want to thank all the faculty members and the students for their restless efforts. I wish all the students great academic achievement with the subsequent bright professional career ahead.

With warm Regards.

HOD(In-Charge)
Department of Computer Science & Technology
Women's Polytechnic,
Hapania, Tripura.

BRIEF DESCRIPTION OF DEPARTMENT

In the year 2007 as the Institute got affiliated to Tripura University, a new branch, namely Computer Science & Technology has been introduced with an intake capacity of 30 students per year. The demand for skills in the computer science field is high and will grow, as a result of the computerization of society. . It mainly emphasizes in imparting the technical skills and knowledge of the application of various hardware and software. Domain of this branch is spreading by leaps and bounds and encompassing all activities of human life. There is huge manpower demand as the country is developing at a fast rate. Job opportunities range widely from Software Industries to all core Engineering Industries and in the government sectors as well. Besides that, on an average 50% of the pass outs venture for higher study through the Lateral Entry system and get admission into 2nd Year Degree Engineering courses. So, Degree Engineering can be achieved in another 3 years after the Diploma Programme. This facility is available in the state as well as outside the state of Tripura. The software skills are imparted to the students through this course so that apart from enabling them to avail more scopes for higher technical education, they could be absorbed by the industry as well.

COURSE CURRICULUM OF THE DEPARTMENT

In Women's Polytechnic we offer 3 years Diploma Engineering in Computer Science and Technology. The course is affiliated to Tripura University (A central university) .The intake capacity of CST Department is 30 every year. The major subjects of 3years Diploma Engineering in Computer Science and Technology are:

1. Engineering Physics
2. Engineering Chemistry
3. Engineering Mathematics
4. Elements of IT
5. English Communications
6. Operating System
7. Electronics Devices & circuits
8. Computer Organization
9. Data Structure & Algorithm
10. Data Communication & Computer Network
11. Object Oriented Programming Methodologies
12. Database Management System
13. Microprocessor
14. Numerical Methods
15. Software Engineering
16. Computer Architecture
17. Internet Technology
18. C Programming lab
19. Object Oriented Programming Lab
20. Java Programming Lab
21. Advanced DBMS lab
22. PC Maintenance Lab
23. Web Technology lab etc.

INTERNSHIP AND EXTRACURRICULAR ACTIVITIES BY STUDENTS

To motivate students and make the students industry ready, students of Computer Technology departments are send to various organisations for visits and training such as:

1. **NIELIT:** The National Institute of Electronics & Information Technology (NIELIT) Agartala Centre (Formerly RIELIT, Agartala) is the 11th Centre of NIELIT (formerly DOEACC Society) in the country and the 5th in the North-Eastern Region. NIELIT is an autonomous body of the Department of Information Technology (DIT), Ministry of Communications & Information Technology, Govt. of India. NIELIT Agartala Centre is aimed to facilitate the youth of Tripura to have easy access to education and training in the field of Computer Science and Information technology in a well-equipped state-of-the-art training infrastructure with qualified & trained faculty members, resulting in generation of quality and employable manpower.
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4. **NIC:** National Informatics Centre (NIC) was established in 1976, and has since emerged as a “prime builder” of e-Government / e-Governance applications up to the grassroots level as well as a promoter of digital opportunities for sustainable development. “Informatics-led-development” Programme of the government has been spearheaded by NIC to derive competitive advantage by implementing ICT applications in social & public administration.
5. **Airport Authority of India:** The Airports Authority of India or AAI under the Ministry of Civil Aviation is responsible for creating, upgrading, maintaining and managing civil aviation infrastructure in India. It provides Air traffic management (ATM) services over Indian airspace and adjoining oceanic areas. The Government of India constituted the International Airports Authority of India (IAAI) in 1972 to manage the nation's international airports while the National Airports Authority (NAA) was constituted in 1986 to look after domestic airports. The organizations were merged in April 1995 by an Act of Parliament, namely, the Airports Authority of India Act, 1994 and has been constituted as a Statutory Body and was named as Airports Authority of India (AAI).
6. **Department of Information Technology, govt. of Tripura:** Directorate of Information Technology under Industries & Commerce Department was formed in the year 1999 to initiate IT Activities in

serious manner. With the vision to have a better management of projects, a society namely ‘Tripura State Computerization Agency’ was formed in the year 2001.

7. **Doordarshan Kendra Agartala:** DD Tripura is a state owned TV channel telecasting from Doordarshan Kendra Agartala in Tripura. DD Tripura was launched in 1994 (as Doordarshan Kendra Tripura) by Prasar Bharati. It is available in India and parts of Asia, China and Gulf Countries.
8. **Tripurainfo.com:** Tripurainfo.com a company registered under the companies Act, 1956, as a limited company established in May 2001. It is a web service provider for Agartala, Placement and Development, Higher studies Information, Tripurainfo.com call center, Website Design and Development, Domain Registration and Software Development.
9. **Senrysa Technologies Pvt. Ltd.:** Senrysa Technologies is a multi-skilled software service provider with a highly competent work force. With years of honed expertise in cross-platform skills and quality-integrated methodologies, Senrysa adopts a competent delivery model in providing value based solutions to clients nationwide. Senrysa brings to clients the best of both worlds: the savings and superior quality of IT solution, and the immediacy and trust of a local company.

LABORATORIES FACILITIES

Laboratory classes are conducted in the Central Computer laboratories of the Institute. Following 03 Nos. of Central Computer laboratories are accessed by the Department, viz.,

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- JAVA Programming Lab
- Database Management System Lab
- Advanced Java Lab

ii. Advance Computation Lab

- Multimedia Lab
- Operating System Lab
- Network Lab
- PC Utility Lab
- PC Maintenance Lab
- Business Application Lab

iii. Programming Lab

- Advanced DBMS Lab
- Microprocessor Lab
- Internet Technology Lab
- Project

In addition to these laboratories, students also access laboratories of Electronics & Telecommunication Department for electronics related technical skills.

iv. Electronics Lab – I

- Electronics Devices & Circuit Lab

v. Electronics Lab – II

- Digital Logic Design Lab

DEPARTMENT OF FASHION TECHNOLOGY

VISION

The vision of Fashion Technology is to furnish the ability to imagine about new creative designs , technologies and plan the future with imagination or wisdom.

MISSION

- To develop a better career.
- To develop the skill of being a creative designer in Fashion & Textile industry.
- To develop an art of being a successful entrepreneur.

MESSAGE FROM HOD

The department of Fashion Technology, offers a range of innovatively designed projects whose demands are constantly meet the changing requirement of the industry and the students can also became self-employed. During the study of this branch the students are encouraged to get hands-on-hands practice through practical classes and internship projects with the reputed organizations .the curriculum is also taught by a distinguished faculty with academic excellence and experience along with dedication and commitment. We believe that our students have been well accepted in different job sectors and a lot of students has inculcated the art of being a successful entrepreneur.

So, I welcome all to be a part of our departmental journey towards excellence.

With warm Regards.

HOD(In-Charge)

Department of Fashion Technology

Women's Polytechnic,

Hapania, Tripura.

BRIEF DESCRIPTION OF THE DEPARTMENT

Fashion Technology is a new branch in the education system of Tripura. It was started in the year 2004 under WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION, Kolkata, with an intake capacity of 30 students per year in first year of the course. In 2007 when the Institute got affiliation from the TRIPURA UNIVERSITY, the intake capacity has been reduced and at present the intake capacity stands at 20 students per year in the first year.

This course aims at imparting the method of creating new designs and fashion stylizations. The different design motives and the costume of the tribes of Tripura as well as the tribes of different North-Eastern states can be explored to the world market through different fashion elements and fashion events. This course is largely intended to cater education for self-employment and build entrepreneurs. After completion of the 3 years diploma course in this branch on an average 80% of the pass outs goes for higher study through the Lateral Entry system and get admission into 2nd Year Degree Engineering courses. So, Degree Engineering can be achieved in another 3 years after the Diploma Programme. This facility is available at the outside of the state Tripura.

COURSE CURRICULUM OF THE DEPARTMENT

In our fashion technology branch we offer different subjects along laboratories, which encourages our students to gain a self-employed attitude along with vast knowledge on fashion & textile industry. The course subjects and laboratories are as follows;

- ▶ Traditional Costume & History of Art
- ▶ Contemporary Fashion & Fashion Design
- ▶ Flat Pattern Making
- ▶ Basics of Textile Manufacture
- ▶ Traditional Embroidery & Marketing Management
- ▶ Fabric Structure & Textile Testing
- ▶ Industrial Management & Entrepreneurship Development
- ▶ Fashion Forecasting & Accessory Design
- ▶ Textile Dyeing & Printing
- ▶ Home Textile
- ▶ Professional Ethics and values & Optimization technique
- ▶ Indian Folk & Tribal Handicrafts & CAFD
- ▶ Textile Finishing

LABORATORIES OF THE DEPARTMENT

- ▶ Programming in C
- ▶ Basic Garment Production
- ▶ Fashion Sketching, Drawing & Designing
- ▶ Flat Pattern Making & Adaptation
- ▶ Tailoring Tools & Equipment
- ▶ Garment Production
- ▶ Computer Application in Fashion
- ▶ Design Application & Fashion Illustration

- ▶ Basic Technique of Clothing Construction
- ▶ Advance Pattern Making
- ▶ Draping Lab
- ▶ Textile Dyeing & Printing Lab
- ▶ CAD in Fashion
- ▶ Home Textile Lab
- ▶ Communication & Generic Skill
- ▶ Fashion Design Project Work

HIGHLIGHTS OF SOME LABORATORIES

Pattern Making Lab:

In sewing and fashion design, a pattern is the template from which the parts of the garment are traced onto the fabric before being cut out and assembled. The process of making or cutting the patterns is sometimes condensed to the word Pattern making.

Garment Draping Lab:

In Apparel industry, Draping is an important part of fashion design .Draping for fashion design is the process of positioning and pinning fabric on a dress form to develop the structure of the garment design.

Textile Weaving Lab:

In Textile industry, Weaving is nothing but the interlacement of two yarns (warp & weft).

Computer Aided Fashion Design Lab:

In Apparel industry, CAD in fashion is the use of computer systems to aid in the creation, modification of a design. CAD software's is used to increase the designing skill of designer.

Textile Testing Lab:

Textile testing is the term for tests that examine and assess the properties of **textiles**. They include physical tests, where a **textile** fibre, yarn or whole cloth is examined for feel and appearance. Some **textile** tests are mechanical tests, in which a **textile** is subjected to pressure and stress.

INTERNSHIP AND EXTRACURRICULAR ACTIVITIES BY STUDENTS

- This course is largely intended to cater education for self-employment and build entrepreneurs. Students have the opportunities to go for internship training to gain industrial knowledge on Textile ,Apparel and Fashion Designing etc . Major thrust areas of the training are:
 - (i) Understanding fabric and garments design and manufacturing
 - (ii) Weaving and Printing
 - (iii) Pattern Making etc.

The students during this course get practical training in Weaver's Service Centre, under Ministry of Textiles, Government of India, National Institute of Fashion Technology, Kolkata, Dept. of Handloom,

Handicrafts and Sericulture, Govt. of Tripura and other organizations so as to develop technical skills and thus make this branch of Technology a unique of its own.

SOMES IMAGES OF STUDENT'S PROJECT PRESENTATION



DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

VISION

To be recognized as a provider of high-quality diploma education that emphasizes scholastic excellence, practical skills and professional competency to become leaders in exploring new frontiers.

MISSION

- To provide a high quality education that prepares students for success in engineering practice and advanced studies.
- To provide value based engineering education.
- To provide opportunities for higher education and industrial training.
- To make our students to become a successful diploma engineer and a devoted citizen.

MESSAGE FROM HOD

The department of Electronics & Telecommunication Engineering was established in the year 2011, with a vision to produce competent engineers capable of adding value to professional standards. Technologies are changing at a rapid pace and touching every corner of our lives. The department of Electronics & Telecommunication Engineering is dedicated towards grooming students and making them ready to meet the requirements of this competitive and rapidly evolving sector. The department has well qualified faculty members with considerable experience in academy, research and industry. The laboratories of the department are well equipped with sophisticated equipment. The department emphasizes on the development of hands on skill of the students to complement their theoretical knowledge and as such the department organizes periodical training program and workshops to train students with the latest technologies apart from the regular curriculum.

It is a pleasure to be the department in-charge. I do welcome all the students and the guardians of the of Electronics & Telecommunication Engineering of Women's Polytechnic. My sincere thanks to our Principal, all the faculty members and all my students for supporting me at every point to keep the department in high esteem.

With Best Wishes

HOD in Charge

Electronics & Telecommunication Engineering

Women's Polytechnic

ABOUT ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

The department offers 3 year regular course leading to Diploma in Electronics & Telecommunication Engineering awarded by Tripura University. The focus in this discipline is on understanding electronic networks and devices, electric magnetic fields, computer fundamentals, communication and control systems. This ensures that, candidates will have opportunities in both hardware as well as software fields. The career paths followed are equally diverse ranging from electronic product design to heavy electrical plant maintenance, from research to production, from technical focus to customer focus.

Electronics and Telecommunication is the field, connected not only with radio, telephone, television, microprocessor based systems, etc. which are the nerve centres of most of the industrial operations, but also in military communications, entertainment, domestic utilities etc. Electronics and Telecommunication Engineering uses the scientific knowledge of the behavior and effects of electronics to develop components, devices, systems and equipments. Candidates have ample opportunities in this field. Electronics and Telecommunication specialists can work in both private and public firms.

Upon completion of the course, candidates can choose to work in consumer electronics, electricity generation and distribution, transportation, computer applications, radio and television, telecommunications, and industries.

COURSE CURRICULUM OF ELECTRONICS & TELECOMMUNICATION ENGG. DEPARTMENT

In Women's polytechnic we offer 3 years Diploma Engineering in Electronics & Telecommunication Engineering. The course is affiliated to Tripura University (A central university) .The intake capacity of ETCE department is 30 every year. The major subjects of 3years Diploma Engineering in Electronics & Telecommunication Engineering are:

1. Engineering Physics
2. Engineering Chemistry
3. Engineering Mathematics
4. Elements of IT
5. English Communications
6. Electronics Device & Circuit Theory
7. Digital Electronics
8. Network Analysis & Transmission Lines
9. Electrical Machine
10. Analog & Digital Communication
11. Microprocessor & Interfacing
12. Consumer Electronics & Measurement
13. Industrial Electronics
14. Computer Architecture & Organization
15. Instrumentation & Control Engineering

16. Fiber Optics Communication
17. Radio & Television Engineering
18. Microwave Engineering
19. Electronics Device & Circuit Theory lab
20. Digital Electronics Lab.
21. Network Analysis & Transmission Lines Lab
22. Analog & Digital Communication Lab
23. Microprocessor & Interfacing Lab
24. Industrial Electronics Lab
25. Instrumentation & Control Engineering Lab etc.

INTERNSHIP AND EXTRACURRICULAR ACTIVITIES BY STUDENTS

To motivate students & make the students industry ready, students of Electronics & Telecommunication Engineering departments are send to various organisations for visits and training such as:

1. **NIELIT:** The National Institute of Electronics & Information Technology (NIELIT) Agartala Centre (Formerly RIELIT, Agartala) is the 11th Centre of NIELIT (formerly DOEACC Society) in the country and the 5th in the North-Eastern Region.

NIELIT is an autonomous body of the Department of Information Technology (DIT), Ministry of Communications & Information Technology, Govt. of India. NIELIT Agartala Centre is aimed to facilitate the youth of Tripura to have easy access to education and training in the field of Electronics and Information technology in a well-equipped state-of-the-art training infrastructure with qualified & trained faculty members, resulting in generation of quality and employable manpower.

2. **BSNL:** Bharat Sanchar Nigam Ltd. was incorporated on 15th September 2000. It took over the business of providing of telecom services and network management from the erstwhile Central Government Departments of Telecom Services (DTS) and Telecom Operations (DTO), with effect from 1st October 2000 on going concern basis. It is one of the largest & leading public sector units providing comprehensive range of telecom services in India.

3. **NIT, Agartala (Dept. of CSE):** The Department of Computer Science and Engineering of National Institute Of Technology Agartala offers an undergraduate and postgraduate Programme in Computer Science and Engineering where students are encouraged to acquire knowledge facilities with an integrated thinking about education research & development, application and training.

4. **Airport Authority of India:** The Airports Authority of India or AAI under the Ministry of Civil Aviation is responsible for creating, upgrading, maintaining and managing civil aviation infrastructure in India. It provides Air traffic management (ATM) services over Indian airspace and adjoining oceanic areas. The Government of India constituted the International Airports Authority of India (IAAI) in 1972 to manage the nation's international airports while the National Airports Authority (NAA) was constituted in 1986 to look after domestic airports. The organizations were merged in April 1995 by an Act of Parliament, namely, the

Airports Authority of India Act, 1994 and has been constituted as a Statutory Body and was named as Airports Authority of India (AAI).

5. **Dept. of Information Technology, govt. of Tripura:** Directorate of Information Technology under Industries & Commerce Department was formed in the year 1999 to initiate IT Activities in serious manner. With the vision to have a better management of projects, a society namely 'Tripura State Computerization Agency' was formed in the year 2001.

6. **Doordarshan kendra Agartala:** DD Tripura is a state owned TV channel telecasting from Doordarshan Kendra Agartala in Tripura. DD Tripura was launched in 1994 (as Doordarshan Kendra Tripura) by Prasar Bharati.

LABORATORY FACILITIES

Laboratory classes are conducted in the different Electronics laboratories of the Institute.

- Following 03 Nos. of Electronics laboratories are accessed by the Department, viz.,

vi. Electronics Lab 1

- Electronics Device Lab
- Network Analysis & transmission Line Lab
- Circuit Theory Lab
- Industrial Electronics Lab
- PCB Design Lab

vii. Electronics Lab 2

- Digital Electronics Lab
- Communication Engineering Lab
- Microprocessor Lab

viii. Electronics Lab 3

- Electrical Lab
- Consumer Lab
- Electronics Measurement Lab
- Consumer Electronics Lab
- Instrumentation Lab
- Control Engineering Lab

In addition to these laboratories, students also access laboratories of Computer Science & Technology Department for computer related technical skills.

- C programming Lab
- Object-Oriented Programming Lab

ADDRESS FROM FACULTY CO-ORDINATOR, TRAINING & PLACEMENT

Scientific fraternity of Women's Polytechnic, Hapania, Tripura has attracted a large number of organizations for recruiting our pass-outs as their employee and potential future leaders. Organizations usually encouraged from acumen, competence, communication, and professional attitude executed by our students. The rigorous and flexible academic curriculum, exposure to industry and research projects, and involvement in professional and social activities of the institute has heightened their all-round development.

Women's Polytechnic believes in coherent and transparent placement policy framed to safeguard the interest of our students and organizations as well. With all excellent facilities for campus recruiters, we are pleased to facilitate the process for all participating organizations.

We also pay significant initiative to meet expectations of diverse spectrum of organization and well talented cum motivated students. Furthermore, suggestions from organizations will contribute in realizing our goal of achieving the best possible match between the aspirations of recruiting organizations and capabilities of our students. We are enthusiastic to host your organisation in the placement camp of the current academic year.

We welcome you all for your sincere and volunteer participation.

Thanks!