



# ELECTRONICS SERVICE & TRAINING CENTRE POLYTECHNIC - RAMNAGAR

Autonomous Organization under Ministry of MSME, Government of India  
ESTC Campus, Kaniya, Ramnagar, Nainital, Uttarakhand – 244715, India



## ADMISSION BOOKLET



**Approved by AICTE**

**Affiliated to Uttarakhand Board of Technical  
Education, Roorkee**

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# INTRODUCTION



Electronics Service & Training Centre (ESTC) Ramnagar operating since 1989 in the area of Mechanical, Electrical, Electronics, IT related Skill development & consultancy for Aspiring / Existing MSMEs with the state of the art infrastructure & experienced faculties. With Approval of AICTE & Affiliation to UBTER, ESTC offers 3 years Diploma courses in Mechanical Engineering and Electrical Engineering.

**ESTC is providing services in the following areas:**

1. Training for Skill Development & Capacity Building of Man Power in various domains.
2. ESTC facilities are available to entrepreneurs. Research institutions & commercial organization on nominal charges.
3. Electrical & Mechanical testing of products.
4. ESTC conducts regular training program, seminars / workshops on various topics related to electronics / IT/ entrepreneurship development etc. We also conduct tailor made training programs at on campus / off campus
5. Design & Development of Prototype Products.
6. Tool Design & Documentation.
7. Manufacturing of Tools, Jigs & Fixtures, Critical Components, Precision jobs.
8. Batch Production services
9. Consultancy services for Laboratory accreditation as per ISO/IEC 17025.
10. Consultancy services for QMS certification as per ISO 9001.
11. Many More Services for MSME's.

## **Training for Skill Development & Capacity Building of Man Powers**

- ESTC has been devoted to Technical Manpower Development particularly from

**“Industrial Sector” & “Information Technology Sector”**

- Skill Development Training is a continuous education & is required by every Practicing Professional and Student for improving his/her competency to meet the greater demands & challenges of Industry.
- ESTC is not only giving the class-room training but it is also supported with various Laboratories for complete hands on experience.
- ESTC faculty members are well qualified & having immense practical experiences, profound insights, broad perspectives and ready to part tips, tricks and techniques gained.
- We always ensure that every participant carry back home lot of clarity & confidence on the subject through Theory, Practical, Demonstrations, Role Play, Live Project etc. This enhances the work performance of participant & there by fulfilling our objective of Skill Development.
- ESTC "Skill – Development Training Programmes" has built- in potential to generate Employment or a possibility to start working independently as a Self-Entrepreneur.
- ESTC is also conducting the Capacity Building Training Program for Principals, Faculty members & Senior officers with main focus on Behavior Science through several Soft Skills like Inter Personnel Skills, HR Management, Communication & Presentation skills, Leadership, Decision making, Team Building, Stress & Conflict Management etc.
- ESTC is also conducting various Sponsored Training Programmes for various states of Ministries/Departments.





# FACILITIES



## LABS



## LIBRARY







# FACILITIES



ISO 9001:2015

## CONFERENCE HALL



## HOSTEL

*ESTC POLYTECHNIC has boys hostel with a capacity to accommodate 80 boys and girls hostel with a capacity to accommodate 20 girls.*



## PLAYGROUND





# DIPLOMA ENGINEERING COURSES



## MECHANICAL ENGINEERING

### Course Highlights

- A Diploma course in Mechanical Engineering deals with the application of principles of mechanical systems.
- Diploma in Mechanical Engineering is a discipline that deals with the application of the concepts of physics and science for designing, manufacturing and maintenance of mechanical equipment's.
- The purpose of offering Diploma in Mechanical Engineering course is to provide education and training to students who can work as professionals in industries and production companies in future.

<b>Duration</b>	<b>03 Years</b>
<b>Eligibility</b>	<b>10th with Science &amp; Mathematics</b>
<b>Intake</b>	<b>25/40/60 (As approved by AICTE/State Govt.)</b>
<b>Pattern of the Examination</b>	<b>Semester System</b>
<b>Assessment Type</b>	<b>The assessment will be carried out through credit point system/Learning Based Out comes</b>
<b>Theory &amp; Practical Ratio</b>	<b>50: 50</b>
<b>Industrial Training</b>	<b>Included after II<sup>nd</sup> Semester</b>
<b>Ecology &amp; Environment</b>	<b>As per Government Directions a subject named Environmental Science &amp; Energy Management has been included.</b>
<b>Entrepreneurship Development</b>	<b>A subject on Entrepreneurship Development has been incorporated after II<sup>nd</sup> Semester.</b>
<b>General Proficiency</b>	<b>A provision of 6 periods per week has been made. It Included of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS, cultural activities and discipline etc.</b>

## SYLLABUS- 1<sup>st</sup> Year

### SEMESTER 1

1. **991001-ENGLISH AND COMMUNICATION SKILLS-I**
2. **991002-APPLIED METHEMATICS-I**
3. **991003-APPLIED PHYSICS-I**
4. **991004-APPLIED CHEMISTRY-I**
5. **991005-COMPUTER FUNDAMENTAL**
6. **991006-ENGINEERING DRAWING-I**
7. **991007-GENERAL WORKSHOP PRACTICE-I**
8. **991051-GENERAL PROFICIENCY**
9. **991052-INDUSTRIAL EXPOSURE (ASSIGNMENT AT INSTITUTE LEVEL)**

### SEMESTER 2

1. **992001-ENGLISH AND COMMUNICATION SKILLS-II**
2. **992002-APPLIED METHEMATICS-II**
3. **992003-APPLIED PHYSICS-II**
4. **992004-APPLIED CHEMISTRY-II**
5. **992005-ENVIRONMENT SCIENCE & ENERGY MANAGMENT**
6. **992006-ENGINEERING GRAPHICS-I**
7. **992007-GENERAL WORKSHOP PRACTICE-II**
8. **992051-GENERAL PROFICIENCY**
9. **992052-INDUSTRIAL EXPOSURE (ASSIGNMENT AT INSTITUTE LEVEL)**



# DIPLOMA ENGINEERING COURSES



## ELECTRICAL ENGINEERING

### Course Highlights

- Diploma in Electrical Engineering is a three-year programme where the students are taught about the application of electromagnetism, electronics, and electricity.
- Electrical engineering is one such specialization under the umbrella of engineering which deals with the study of electrical power generation, equipment, and their design.
- After completion of this course, it provides wide opportunities for students in Private as well as government enterprises

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# COURSE ELIGIBILITY



GROUP	COURSE NAME	COURSE DURATION	ELIGIBILITY
E	Diploma in Engineering	Three years	Pass 10th or equivalent examination with Science & Mathematics Subjects. Obtain minimum 35% marks in examination.
A (Lateral Entry)	Diploma in Engineering	Two years	<p>Pass 10+2 with PCM/ ITI (2 years)/ 10+2 with vocational/ technical subjects</p> <p><b>ITI</b></p> <p>For Mechanical Engineering: Fitter/Turner/Refrigeration and Air Condition Mechanic/Draftsman Mechanic</p> <p>For Electrical Engineering: Electrician/Wireman</p>





# GENERAL INFORMATION



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**Course Hours:** 6 hours per day (excluding lunch), As per Academic Calendar

**Attendance:** It is compulsory to attain 80% attendance for appearing semester and final exam in all the courses.

**Original Certificate:** Original certificates of school leaving certificate and Character Certificate are to be deposited with ESTC POLYTECHNIC Ramnagar by the candidates at the time of admission

**Institute Security Deposit:** Institute Security Deposit is to be paid towards the caution money against the tools & instruments, etc. whichever will be issued to the students. This amount is refundable at the time of leaving after completion of course and on production of no dues from the concerned sections.

**Uniform & Safety Shoes:** Students shall be required to wear uniform/apron & shoes as prescribed by the institute on his/her own cost.

**Course:** Total Tuition fees in two installments and caution money to be paid fully at the time of admission process.

**Holidays:** Holidays shall be observed as per Central Government during each calendar year.

**Vacation** The period of vacation will be declared at the end of the semester

(There will be a variation on the duration of Vacation).

**DISCIPLINE AND PERFORMANCE:** The student is bound by the rules and regulations of ESTC POLYTECHNIC Ramnagar as laid down by the management from time to time. The students is required to strictly abide by the rules of ESTC POLYTECHNIC Ramnagar failing which disciplinary action may be taken against them. The students and his/her guardian will have to give an undertaking to this effect.

Whenever it is found necessary, ESTC POLYTECHNIC Ramnagar will take strict disciplinary action as stipulated in the rules of the ESTC POLYTECHNIC. This may amount to a warning, suspension or termination as the case warrants. In case if unsatisfactory progress of a students, the management will fix a period of probation and give notice in writing to the candidate and the guardian. In case no improvement is evident within the specific period, the admission will be terminated.







# GENERAL RULES & REGULATIONS



ISO 9001:2015

1. ESTC POLYTECHNIC reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be rejected.
2. Medium of instructions is English & Hindi.
3. Course Fee is non-refundable, in case any candidate cancels his/her admission for any reason
4. Course fee once paid will not refunded under any circumstances.
5. Registration/course fee is non-transferable.
6. Course fee for the higher/next semester has to be paid within a week from the date of start of semester. Late fee will be charged as a fine from due date as applicable
7. All the Students will ensure discipline within the campus.
8. Students shall be required to wear uniform and shoes as prescribed by the institute and possess ID-card compulsory during course.
9. Mobiles Phone, Pen Drive, CD/DVD or any other related items are not permitted inside ESTC POLYTECHNIC Ramnagar premises.
10. Regular Attendance will have to be maintained by the students as per course schedule & 80% attendance is compulsory in all subjects individually.
11. Students will abide by the examination rules and regulations displayed on Notice Board of ESTC POLYTECHNIC Ramnagar and as amended from time to time.
12. Leave without information/permission will not be entertained.
13. Students going on leave or home during vacation should inform the Course Coordinator/Institute compulsorily.
14. All the internal assessments, assignments, evaluations will have to be attended/completed from time to time as per course schedule only.
15. No Students shall organize/conduct any meetings within the campus.
16. The machines/equipment's/furniture must be handled carefully. No act of damage to property, fine as charged to be paid by the Students.
17. Students have to ensure the proper utilization of ESTC POLYTECHNIC Ramnagar property including water and electricity usage.
18. Smoking and chewing tobacco, possessing or drinking alcoholic beverages in any form is strictly prohibited within ESTC POLYTECHNIC Ramnagar premises.
19. Study material shall be provided on extra cost as applicable.
20. Violations of above & any other rules, regulations, discipline and conduct etc. are liable.



# FEE STRUCTURE



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ESTC POLYTECHNIC Diploma Fee	I YEAR	II YEAR	III YEAR
Tuition Fee (In Two Installments)	₹25000	₹25000	₹25000
Student Fund Fee	₹5000	₹5000	₹5000
Admission Process	₹50	₹50	₹50
Identity Card	₹50	₹50	₹50
Sports & Extra Curricular	₹250	₹250	₹250
Annual Function	₹100	₹100	₹100
Exam (Internals)	₹100	₹100	₹100
Library charges	₹300	₹300	₹300
Student Insurance	₹150	₹150	₹150
Hobby Centre	₹50	₹50	₹50
Electricity	₹1000	₹1000	₹1000
Industrial Visit	₹300	₹300	₹300
Maintenance	₹1500	₹1500	₹1500
Computer/Internet	₹500	₹500	₹500
Student Welfare	₹100	₹100	₹100
NCC	₹100	₹100	₹100
Others	₹450	₹450	₹450
Security Amount (Refundable)	₹2000	0	0
Personality Development Charges (One Time)	₹1000	0	0
Soft Skills Development	₹200	0	0
Placement Assistance	₹200	0	0
Additional Skill Development	₹500	0	0
Seminars/Workshops/Conferences	₹100	0	0
Hostel Charges (Yearly)	₹4000	₹4000	₹4000
Hostel Fee	₹600	₹600	₹600
Hostel Caution Money	₹200	₹200	₹200
Maintenance Charges	₹2000	₹2000	₹2000
Electricity	₹1100	₹1100	₹1100
Vessel Usages Charges	₹100	₹100	₹100

1. Hostel Charges (Excluding Food) - ₹4000/-per student/year
2. Tuition Fee Waiver Scheme (TFW) - 5% seats is allocated to students under TFW by AICTE. As per UBTER norms.
3. Reservation in seats for SC/ST, Women, EWS and PH is applicable as per rules.
4. Uniform/Dress Code will be informed separately



# ANTI-RAGGING CAMPAIGN



- ESTC POLYTECHNIC Ramnagar has been able to maintain a "Ragging Free Campus" over the years. In our endeavors for ensuring the same we have received invaluable support from the students and their guardians. Today, ragging has become synonymous with teasing, terror, harassment, cruelty, fear, physical and mental torture and abuse of human rights of fresher which is resulting in numerous avoidable deaths, suicides, group clashes/conflicts and a large number of fresher dropouts. ESTC considers ragging as a cognizable and heinous offence and does not hesitate to take stern action against the offenders with a view to maintain "Ragging Free Campus".



Definition and punishment for the ragging are given as under :

- Any conduct by any student or students, whether by word spoken or written or by an act, which has the effect of teasing, treating or handling with rudeness a fresher or any other student.
- Exploiting students for completing academic task and financial extortion.
- Any act of physical abuse including all its variants - sexual abuse, homosexual assaults, and stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health of a person.
- Any act that prevents disrupts or disturbs the regular academic activity of other students.
- Punishment For Ragging :

Some of the punishments for students directly or indirectly involved in the ragging and its abetment are given as under :

- Cancellation of Admission
- Suspension from attending classes.
- Withholding / withdrawing of scholarship / fellowship and other benefits.
- Debarring from appearing for any test / examination/placement activities organized by the institute.
- Withholding of results.
- Lodging FIR against offender.
- Debarring from representing the institution in any National or International meet, tournament and festival.
- Suspension / Expulsion from the hostel.
- Rustication from the institute for varying periods.
- Expulsion from the institution and consequent debarring from admission to any other institution.
- Fine up to Rs. 2,50,000/- (up to 2.5 Lakh)
- Rigorous Imprisonment for up to 3 years (under court of law).

## Approval

(F.No. 37-3/Legal/AICTE/2009 dated 01/07/2009)

[www.antiragging.in](http://www.antiragging.in)





**ISO 9001:2015**

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