

The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE

I. NAME OF THE INSTITUTION :-TRIPURA ENGINEERING COLLEGE

- Address including telephone, Fax, e-mail. , Barjala, PO. Tripura Engineering College, Agartala, Tripura(W), Pin-799055, State : Tripura, Telephone No.(0381)2346-630/2346-360/2346-629. FAX No. (0381)2346-630/360, email. tecprincipal @ rediffmail.com

II. NAME & ADDRESS OF THE DIRECTOR : DR.S.C.SAHA, PRINCIPAL, TRIPURA ENGINEERING COLLEGE, BARJALA, AGARTALA, TRIPURA(W) PIN-799055

- Address including telephone, Fax, e-mail. (0381)-2346-630(Tel & Fax)

III. NAME OF THE AFFILIATING UNIVERSITY : TRIPURA UNIVERSITY

IV. GOVERNANCE

- ❖ Members of the Board and their brief background:

Governing body members of Tripura Engineering College is running with a committee with the following members:-

Sl.No	Name & Designation of Officer of Governing body.	
1	Hon'ble Higher Education Minister, Tripura	Chairman
2	One representative from Industry & Commerce Dept., Government of Tripura	Member
3	Secretary/Commissioner, Education (Higher) Dept.	Member
4	Joint Secretary, Finance Dept., Govt. of Tripura	Member
5	Chief Engineer, PWD, Govt. of Tripura	Member
6	Vice-chancellor, BE College, West Bengal	Member
7	One representative from AICTE (Nominee)	Member
8	Director of Higher Education, Govt. of Tripura	Member
9	Faculty representative from T. E. College	Member
10	Principal, Tripura Engineering College	Member-Secretary

- ❖ Members of Academic Advisory Body :

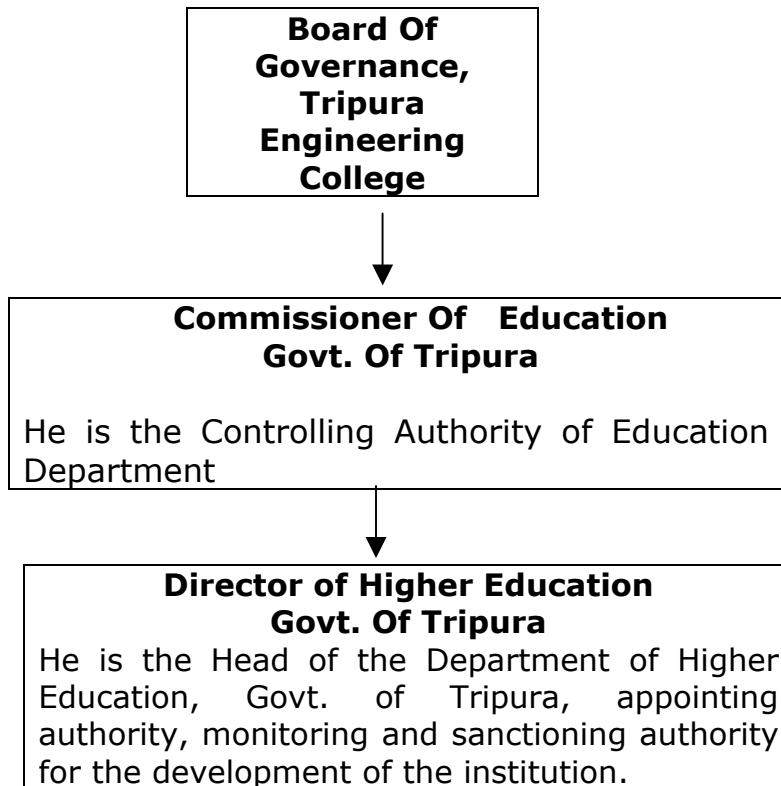
A high power committee has been formed with the following members.

1. Hon'ble Education Minister (Higher), Tripura
2. Commissioner Education Dept., Tripura
3. Director of Higher Education Dept., Tripura
4. Vice-chancellor, Tripura University
5. Chief Architect, PWD, Tripura
6. Chief Engineer, PWD, Tripura

❖ Frequency of the Board Meetings and Academic Advisory Body :-

Minimum three times in a year.

❖ Organizational chart and processes



HOD Civil	HOD , Elec	HOD , ME	HOD , CSE	Head of office DDO	Office Supdt.	Head Clerk	Head Librarian
Function of all HODs are overall supervision of dept. and smooth running of departmental works.				Overall supervision works of office administrative works along with drawl of pay and other draws .	Supervision works of office & accounts	Supervision of office and maintaining section works	Overall administrative works of library section

- ❖ Nature and Extent of involvement of faculty and students in academic affairs/ improvements

Academic side	Improvement
1. Class teaching	1. Project report preparation under MODROB trust area
2. Practical	2. Submission of annual report of the dept.
3. Project Work	3. Development of laboratories
4. Seminar/ Group discussion	4. Purchase for the dept. and the college
5. Internal excursion	5. Technical activities for the govt. projects (like PMGSY, Earthquake Engineering)
6. Research activities	
7. Consultancy	

- ❖ Mechanism/Norms & Procedure for democratic/good Governance
Policy discussions were taken in the Board meeting and implementation is done through Government order for policy matter for the Institute. Academic discussions were taken in the HODs meeting and teacher concerned of the institute. Students were also involved for discussion about academic matter through class representative, ISTE students and NSS, NCC wing.
- ❖ Student Feedback on Institutional Governance/faculty performance

The Head of the Institute and departmental head through direct interaction obtain student's feedback. They are also encouraged to give the feedback regarding faculty performance through performance sheet. Teacher/faculty members are also asked to submit and provide lesson plan for their activities for a particular semester.

- ❖ Grievance redressal mechanism for faculty, staff and students
The faculties are permitted to express their views through academic council, association and individual level interaction with authority.

V. PROGRAMMES

- ❖ Name of the Programmes approved by the AICTE - Under Graduate Program
Name of programme approved by AICTE are as follows:-
Civil, Mechanical, Electrical, Computer Sc. , Electrical & Electronics, Production and Transportation Engineering.
- ❖ Name of the Programmes accredited by the AICTE :- Nil
- ❖ For each Programme the following details are to be given :-
 - Name of programme
 - Number of seats
 - Duration

Sl.No	Name of Programme	Nos. of seat	Duration
1	Civil Engineering	40	4years(8 th semester)
2	Electrical Engineering	40	-do-
3	Mechanical Engineering	40	-do-
4	Computer Science & Engineering	40	-do-
5	Electrical & Electronic Engineering	30	-do-
6	Production Engineering	30	-do-
7	Transportation Engineering	30	-do-

- Cut off mark/rank for admission during the last three years :-
Minimum 50% marks in Physics, Chemistry and Mathematics in H.S(10 + 2) stage examination. Admission is being made by **Tripura Board of Joint Entrance Examination.**
- Fee :- At the time of admission for UR students Rs. 1722/- for boys and Rs.1630/- for girls of Tripura Board of Secondary Education.

Rs. 1822/- for boys Rs. 1730/- for girls of other Boards/University.

At the time of admission for SC/ST students: Rs. 1562/- for SC/ST boys Rs. 1560/- for SC/ST girls of Tripura Board of Secondary Education and Rs. 1662/- for SC/ST boys Rs.1660/- for SC/ST girls of other Board/University

Nominee Students selected by North Eastern Council are to be paid

Rs.42,000.00 per year as pro rata contribution and Govt. of India selected

candidate make payment as per normal fees of the Institute.

- Placement Facilities:
The College has a **Training and Placement Cell** under Training & Placement Officer with supporting staff for organizing industrial training ,placement of the students under various organizations in the national level and also organizing apprenticeship training under **BOPT** Kolkata of passed out students. Industrial training after the 5th semester examination is compulsory for students of all under graduate programs.
- Campus placement in last three years with minimum salary, maximum salary and average salary :
The training and placement cell of Tripura Engineering College also arranges campus interview for pre-final and final year students. Students are encouraged to participate in seminar, workshop and various academic competition sponsored by Indian Society Of Technical Education, Institution of Engineers and other Institution through the training and placement cell. Placement position of last three years is as follows-

Sl.No	Year	Name of Company/Industry	Number of students placed
1	2002-03	Indian Army, TCS, Apprentice Training for one year under BOPT	50
2	2003-04	Indian Army,BOPT Apprentice training , School Computer Training under MHRD New Delhi	50 5
3	2004-05	Ober Construction Pvt. Ltd., Kolkata, Indian Army Star Cement, Meghalaya Associate (Human Resource	2 1

		Management) Dharampal Satyapal Ltd. 14 Industrial Estate, Agartala	5
		BOPT Apprentice training , ITI G,ovt. of Tripura ,	25
		School Computer Training under MHRD New Delhi,	10
		Projects & Development India Ltd.,Noida,	3
		UNITY Infraproject Ltd. ,Mumbai,	6 1
		Power Grid Corp. of India ,Gurgaon	
		Cement Manufacturing Company Ltd. ,Meghalaya	

- ❖ Name and duration of programme(s) having affiliation/collaboration with Foreign University(s)/Institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration, give the following details:

Details of the Foreign Institution/University: -Does not relate to this Institute.

- Name of the University/Institution
- Address
- Website
- Is the Institution/University Accredited in its Home Country
- Ranking of the Institution/University in the Home Country

- Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country.
- Nature of Collaboration
- Conditions of Collaboration
- Complete details of payment a student has to make to get the full benefit of collaboration.

- ❖ For each Collaborative/affiliated Programme give the following :-Does not relates to this Institute.

- Programme Focus
 - Number of seats
 - Admission Procedure
 - Fee
 - Placement Facility
 - Placement Records for last three years with minimum salary, maximum salary and average salary
- ❖ Whether the Collaborative Programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16th May, 2005 .

Not applicable

VI. FACULTY

- ❖ Branch wise list of faculty members .
- Permanent Faculty :-
Permanent faculty in the institute are as follows-

Mechanical Engineering Department

1. Dr. Dr. S.C. Saha, Principal
2. Prof. P.C.Das, Vice-Principal
3. Dr. Prusun Chakraborty- Asstt. Prof
4. Dr. Swapan Bhowmik, Asstt. Prof
5. Mr. Sekher Datta, Asstt. Prof.
6. Dr. N.C.Pal, Lecturer Selection Grade
7. Mr. Ajoy Kumar Das, Asstt. Prof.
8. Mr. Asis Sarkar, Lecturer
9. Mr. Pritam Das, Lecturer
10. Mr. John Debbarma, Lecturer

Civil Engineering Department

11. Dr. R.P.Sharma, Asstt. Prof.
12. Mr. Manish Pal, Asstt. Prof.
13. Mr. Ratul Das, Asstt. Prof.
14. Mrs. Rama Debbarma, Asstt. Prof.
15. Mr. Sujit Kumar Pal, Lecturer Selection Grade

16. Mrs. Lipika Haldar, Lecturer
17. Mr. Manik Barman, Lecturer

Electrical Engineering Department

18. Mr. Rupnarayan Roy, Asstt. Prof.
19. Mr. Arup Kumar Daschoudhury, Asstt. Prof.
20. Mr. Priyanath Das, Asstt. Prof.
21. Mr. Diptendu Bhattacharjee, Lecturer Selection Grade.
22. Mr. Ardhendu Saha, Lectuer Senior Scale
23. Mrs. Anidita Jamatia, Lectuer

Computer Science & Engineering

24. Mr. Mrinal Kanti Debbarma, Lecturer
25. Mr. Swapan Debbarma, Lecturer
26. Mr. Nikhil Debbarma, Lecturer
27. Mr. Kunal Chakma, Lecturer

Physics Department

28. Dr (Mrs.) Aparna Nath, Asstt. Prof.

Chemistry Department

29. Dr. Saroj Kumar Das, Asstt. Prof.

Mathematics Department

30. Dr. Debasish Bhattacharjee, Asstt. Prof.

Workshop Technical Faculty

1. Mr. Pantha Das, Foreman Instructor (Mech. Engg)
2. Mr. Presenjit Dutta, Foreman Instructor (Mech. Engg)
3. Mr. Suman Karmakar, Head Instructor (Elect. Engg)
4. Mr. Debraj Das, Head Instructor (Mech. Engg)

5. Mr. Subhankar Chakma, Head Instructor (Civil Engg)
- Visiting Faculty :

Name of Visiting Lecturers Mech. Engg. Dept.

1. Mr. Arup Dutta, Visiting lecturer
2. Md. Sahang Khan, Visiting lecturer
3. Mr. Rajat Chakraborty, Visiting lecturer
4. Mr. Jutan Dey, Visiting lecture
5. Mr. Madhujit Deb, Visiting lecturer
6. Mr. Baranik Saha ray, Visiting lecturer

Name of Visiting Lecturer Civil Engg. Dept.

7. Mr. Anirban Sengupta, Visiting Lecturer
8. Smti. Smita Ray, Visiting Lecturer
9. Smt. Khumtia Debbarma, Visiting lecturer
10. Smti. Sumi Chakraborty, Visiting lecturer

Name of Visiting Lecturer, Elec. Engg. Dept.

10. Mr. Hirak Pal, Visiting Lecturer
11. Smt. Sumita Deb, Visiting Lecturer.
13. Smt. Tanima Bhattacharjee, Visiting Lecturer.
14. Smt. Sagarika Dasgupta, Visiting Lecturer.
15. Sri Susanta Acherjee, Visiting Lecturer.
16. Smt. Gagri Deb, Visiting Lecturer.

Name of Visiting Lecturer , Physics Dept.

17. Mr. M.B. Saha, Visiting Lecturer

Name of Visiting Lecturer

18. Mr. Raktim Kanti Bhattacharjee, Visiting Lecturer
19. Mr. Sukdeb Chakraborty, Visiting lecturer

- Adjunct Faculty :- Nil
 - Guest Faculty / Part-time teacher :-
 1. Mr. Jiban Manik, Part-time teacher
 2. Mr. Nani Gopal Nandi, Part-time teacher
 - Permanent Faculty: Student Ratio : -20:1
- ❖ Number of faculty employed and left during the last three years
Number of faculty employed – 5 nos. and no faculty left during last three years.

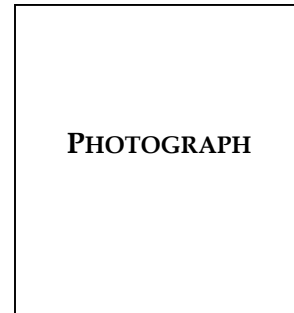
VII. PROFILE OF DIRECTOR/PRINCIPAL WITH QUALIFICATIONS, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED

For each Faculty give a page covering

Separate sheets for each faculty are enclosed herewith

1. Name Dr. Subash Chandra Saha
2. Date of Birth 24-01-1955
3. Educational Qualification: BE, M.Tech, Ph.D.
4. Work Experience
 - 23 Year - Teaching
 - 5 Years - Research
 - Nil - Industry
 - Others

Consultancy Works
With TATA Tube Div. Jamshedpur



5. Area of Specializations

Specializations in Welding, Casting,
Mathematical Modeling.

6. Subjects teaching at Under Graduate Level

Production Engineering, Manufacturing Science,
Welding Technology, Material Science, System
Engineering & Design

Post Graduate Level

Welding Technology, Product Design &
Development under Production Engineering.

7. Research guidance

Doing active research in Mechanical Metallurgical
Structure in Welding in the Dept. of Metallurgical
Engg. IT, BHU.

Masters's :- nil

Ph.D. :- nil

No. of papers published in
1 -National Journals
2- International Journals
8- Conferences

8. Projects Carried out :-

Consultancy and Sponsored Research activities

Year	Origination	Project Title	Amount received
1993	Silchar Nursing Homes, Association	Design and manufacturing of Incinator.	0.78 lakh
1993	Government of Mizoram	Design and Fabrication of Village pull cart	0.11 lakh
1996	Brahmaputra Steel Factory, Silchar, BRTF	Testing and Chemical analysis	0.11 Lakh.
1997	AICTE	Modernisation of Workshop	9 Lakh.
1997	AICTE	Modernisation of CAM	5 Lakh
1999	MHRD	Modernisation of Workshop	8 Lakh
2000	MHRD	CAM Centre	10 Lakh

9. Patents :- Nil

10. Technology Transfer :- Nil

11. Research Publications : Nil

12. No. of Books published with details .
 No.of Books publications of books are as follows :-
1. A review of heat transfer mechanism in Welding- National Conference on Thermal System, I.T, BHU.,1986
 2. Estimate of heat affected zone and metallographic study of 15 CDV6 Steel – International Conference on Welding Technology, New Delhi-1987.
 3. Heat transfer in Welding – A numerical approach.- International Conference on Recent trend in Welding , Roorkee, 1988.
 4. Thermal Profile in Welding – A numerical approach- International Conference on Heat and Mass Transfer, Yugoslavia, 1990
 5. Computer model for estimation of maximum hardness in HAZ- Indian Welding Journal.
 6. Study of Weld metal and heat affected zone microstructure of plain carbon steel- American Welding Journal , 1991
 7. Effect of forced cooling on Weld bead geometry- National Conference of IIM, Bombay.
 8. Study of HAZ microstructure by Transmission Electron microscopy- Annual Conference on IIM, Trivandrum.
 9. Maximum Dimensional accuracy in Multi-pass Turning- International Conference of Computer Modelling, Coimbatore, 1994.
 10. An optimum design of the lining of a Medium Frequency Induction Furnace- Int. Trans Opt. Res. Vols. No. 4 PP-255-259, 1998.
 11. An Expert System in Welding – International Conference in Met. Engineering , IT, B.H.U., Varanasi, 1998
 12. Development of self Generation CNC Programm, for Production of various profiles defined by functional Equation, I.I.T., Kanpur-2000.

VIII. FEE

- ❖ Details of fee, as approved by State fee Committee, for the Institution. : **Information as at Sl. No. V**
- ❖ Time schedule for payment of fee for the entire programme. : Students may pay the admissible fees 15 days advance for all semester examination and as and when required by the Tripura University.
- ❖ No. of Fee waivers granted with amount and name of students. :-
 Name of students granted waivers are as follows –
 1. Pradip Das, 2nd semester Rs. 670/-

2. Ujjal Kumar Das 2nd semester Rs. 670/-
3. Raju Chandra Pal 2nd semester Rs. 670/-
4. Sudipta Das 4th semester Rs. 670/-
5. Prabir Das 2nd semester Rs. 670/-
6. Raju Das 6th semester Rs. 670/-
7. Tanmoy Sankar Dey 4th semester Rs. 670/-
8. Rajib Kumar Das 4th semester Rs. 670/-
9. Rajib Ranjan Saha 4th semester Rs. 670/-
10. Swapan Das 2nd semester Rs. 670/-
11. Nataraj Choudhury 6th semester Rs. 670/-
12. Chittaranjan Debnath 7th semester Rs. 670/-

❖ Number of scholarship offered by the Institute, duration and amount:

-

Scholarship/Stipend offering by the Govt. of Tripura as per norms month wise (ten month in a year) at the following rates .

SL.n o.	Category of Student	Hosteller	Day scholar Low Income group	Amount Per month @ of
1.	SC/ST	√		Rs.740/-
2.	SC/ST		√	Rs.330/-
3	OBC	√		Rs. 425/-
4.	OBC		√	Rs. 190/-
5.	LIG	√		Rs.175/-
6.	LIG		√	Rs.150/-
7.	LIG girls			Rs.30/-
8.	N.E.C. stipend	Nominated students selected by NEC Rs.800/-		N.E.C. stipend

❖ Criteria for fee waivers/scholarship. :

Based on BPL category and special consideration with the recommendation of the **Students Welfare Committee** of this Institute.

❖ Estimated cost of Boarding and Lodging in Hostels. :-

Approximately Rs. 1000/- per students per month .

Ix. ADMISSION

❖ **Number of seats sanctioned with the year of approval.**

Year	Branch	No. of seats approved by AICTE
2003-2004	Civil	40
2003-2004	Electrical	40
2003-2004	Mechanical	40
2003-2004	Computer Science	40
2004-2005	Civil	40
2004-2005	Electrical	40
2004-2005	Mechanical	40
2004-2005	Computer Science	40
2005-2006	Civil	40
2005-2006	Electrical	39
2005-2006	Mechanical	40
2005-2006	Computer Science	40
2005-2006	Electrical & Electronics	30
2005-2006	Production	30
2005-2006	Transportation	30

- ❖ Number of students admitted under various categories each year in the last three years.

Year	Branch	No. of student admitted
2003-2004	Civil	40
2003-2004	Electrical	40
2003-2004	Mechanical	40
2003-2004	Computer Science	40
2004-2005	Civil	40
2004-2005	Electrical	40
2004-2005	Mechanical	40
2004-2005	Computer Science	40
2005-2006	Civil	40
2005-2006	Electrical	39
2005-2006	Mechanical	40
2005-2006	Computer Science	40
2005-2006	Electrical & Electronics	30
2005-2006	Production	30
2005-2006	Transportation	30

- ❖ Number of applications received during last two years for admission under Management Quota and number admitted.
NIL

X. ADMISSION PROCEDURE

- ❖ Mention the admission test being followed, name and address of the Test Agency and its URL (website).
Tripura Board of Joint Entrance Examination conducts a written test in Physics , Chemistry and Mathematics of 100 marks each for selecting candidates under engineering category. The syllabi is as per Board of Secondary Education ,Govt. of Tripura.

**The Chairman,
Tripura Board of Joint Entrance Examination.
New Capital Complex , Gorkha Basti,
Tripura West**

- ❖ Number of seats allotted to different Test Qualified candidates separately [AIEEE/CET (State conducted test/University tests)/Association conducted test]

Seat allotted by Tripura Board of Joint Entrance Examination : 218 for Tripura State and 22 seats for North Eastern Council and 10 seats for Govt. of India out of total seats 250. The NEC seats and the Govt. of India seats are selected by the concerned state government based upon their criteria .However, the 50% marks requirement in Physics ,Chemistry & Mathematics is mandatory for all candidates in General category ,45% for SC and 40% for ST.

- ❖ Calendar for admission against management/vacant seats:
 - **Last date for request for applications.**
As per notification of Tripura Board of Joint Entrance Examination, generally in the month of August, September.
 - **Last date for submission of application.**
As per notification of Tripura Board of Joint Entrance Examination February
 - **Dates for announcing final results. May**
As per decision of Tripura Board of Joint Examination
 - **Release of admission list (main list and waiting list should be announced on the same day)**
As per decision of Tripura Board of Joint Examination May

- **Date** for acceptance by the candidate (time given should in no case be less than 15 days)
As per decision of Tripura Board of Joint Examination
- **Last date** for closing of admission. August.
As per decision Tripura University (Probably for the month of October)
- **Starting** of the Academic session.
From the month of August.
- **The waiting list** should be activated only on the expiry of date of main list.
After surrendering allotted seat by a candidate.
- **The policy** of refund of the fee, in case of withdrawal, should be clearly notified.
Refundable fees are credited to the students as per govt. rules.

XI. CRITERIA AND WEIGHTAGES FOR ADMISSION

- ❖ Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.

Criteria for admission in B E undergraduate course is pass in H.S (10+ 2 stage) examination with at least 50% marks in physics, chemistry and mathematics for UR Students, 45% of marks for SC Students and 40% of marks for ST students. Admission is being making by **Tripura Board of Joint Entrance Examination.**

Regarding admission in **Lateral Entry System** in this institute a candidate has to pass three years diploma in engineering with at least **60%** marks in aggregate. Admission is made by a state level competitive examination conducted by a state level committee under Higher Education Department

- ❖ Mention the minimum level of acceptance, if any.
All the students are admitted based on above mentioned level.
- ❖ Mention the cut-off levels of percentage & percentile scores of the candidates in the admission test for the last three years.
As decided by the Joint Entrance Board.
- ❖ Display marks scored in Test etc. and in aggregate for all candidates who were admitted.

Students are admitted on the basis of rank secured in the Joint Entrance Examination and nominated by the Higher Education Department, Govt. of Tripura.

Item No I - XI must be given in information brochure and must be hosted as fixed content in the website of the Institution.

The Website must be dynamically updated with regard to XII–XV.

XII. APPLICATION FORM

- ❖ Downloadable application form, with online submission possibilities.

Prospectus alongwith application form will be available on the net and it is w.e.f. August 2006. However, application forms are accepted only offline with an application fee of Rs.100/-

XIII. LIST OF APPLICANTS

- ❖ List of candidates whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats. List of candidates who have applied along with percentage and percentile score for Management quota seats.

The entire procedure of selection of candidates is monitored by **Tripura Board of joint entrance Examination .**

XIV. RESULTS OF ADMISSION UNDER MANAGEMENT SEATS/VACANT SEATS

There is no management quota seats in Tripura Engg.College For vacant seats the Govt. gives Advertisement in local news paper and selection is done on the basis of common merit list published by the Joint Entrance Board.

- ❖ Composition of selection team for admission under Management Quota with the brief profiles of members (This information be made available in the public domain after the admission process is over)
 - ❖ Score of the individual candidates admitted arranged in order of merit.
 - ❖ List of candidates who have been offered admission.
-
- ❖ Waiting list of the candidates in order of merit to be operative from the last date of joining of the first list candidates.

- ❖ List of the candidates who joined within the date, vacancy position in each category before operation of waiting list.

XV. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE

LIBRARY:

- Number of Library books/Titles/Journals available (programme-wise)

Numbers of library books volume/Titles/Journals are as follows

Sl .No	Courses	Number of titles of the books	Number of volumes	Journals National	Journal International
1	Civil	1500	15000	10	-
2.	Mechanical	1400	13500	-	-
3.	Electrical	900	13400	-	-
4.	Computer Sc.& Engg.	1000	10000	-	-
5.	Production Engg.	1000	2500	-	-
6.	Elect.& Electronics	100	1600	-	-
7	Transportation	500	10000		

- List of online National/International Journals subscribed. Nil

- E-Library facilities

The College library has the following facilities

1. Lending section
2. Reading room
3. Book volume section
4. Reference section
5. Stock room containing more than 40,000 books and 1000 journals
6. Xeroxing facilities
7. Computer facilities

LABORATORY:

For each Laboratory

➤ List of Major Equipment/Facilities

Name of major equipments department/ laboratory wise are as follows

Sl.No	Name of Dept/Lab.	Name of equipments
1	Civil Department	CTM, 2000 KN Digital UTM, 500, KN load frame, Triaxial Test apparatus (Digital) Marshall stability test machine for asphalt mix, laboratory and Field CBR test apparatus, Digital balance (accuracy-0.01mg)
2	Computer Sc.& Engg Dept.	Computer, HUB patchpanel, PC, Hardware equipments digital COMM system (EPABX)
3	Electrical Dept	Microprocessor lab= Microprocessor trainer kits different study cards analog oscilloscopes and different set up for microprocessor based application
4	Electric Drives Lab.	<ul style="list-style-type: none"> i. Thyristorised DC Choper Drive Controller ii. Static controller for slip power control of SRIM (Static- Kramer Drive) iii. Closed loop controller (Thyristor based) for Armature and Field control of DC shunt Motors. iv. V/F control of Induction Motor using PWM Inverter (IGBT based) v. IGBT based Intelligent power Module for V/F vector and choppar Drive controllers (using DSP with computer interfacing) vi. 100 MHZ Digital storage oscilloscope with FFT Facility communication Module and printer port. vii. 25 MHZ Analog CRD viii. Computer for interfacing Drive Systems
5	Electrical Machine Lab/Basis Electrical Engg.lab.	<ul style="list-style-type: none"> i. DC Shunt, serious and comport Motors /Generators mechanically coupled ii. 3-phase Induction Motor coupled with synchronous Motor / Generator iii. Synchronous Machine coupled with DC Machines iv. 3-Phase slip ring Induction Motor v. AC Commentator Motor (Schrage Motor) vi. Single phase Transformers usable as three phase Transformer vii. Two identical synchronous Machines mechanically coupled

6	Control System & Instrumentation Lab.	<ul style="list-style-type: none"> i. Instrumentation and transformer trainer ii. DC & AC position control setup iii. Synchronous transmitter Receiver setup iv. DC and AC servo motor torque speed characteristic setup v. LVDT strain gauge, PT-100 Thermo couple trainers and other temperature sensors. vi. Different AC Bridges vii. Digital storage oscilloscope with FFT facility 25 MHZ Analog oscilloscopes, Multimeter and regulated power supplies 	
7	High Voltage Engg. Laboratory	<ul style="list-style-type: none"> i. High Voltage Testing Set 60 KV, SSS make Serial No.SSS/411/85 with (a) Control Panel (b) H. T .Transformer ii. H.V.Oil Testing Set.,Sphere gap assembly Rod Gap For voltage up to 200 KV iii. DC High voltage testing set 100 KV, serial No.SSS/258/88 Input-230 V, 50 HZ, AC , Output continuously variable 0-100000, Cap 10 mA iv. Recurrent Surge Generator, 200 V, 50 Hz, AC. v. Peak Voltmeter 200V, 50Hz.AC vi. Two stage cascade Transformer 10 KV, 50 Hz, AC. Unit-I & Unit-II vii. Impulse Voltage Generator 200KV, 2500 Joules with all necessary device & Protection viii. Potentiometer: 200KV (a) Capacitive, (b) Resistive 	<p>1 No</p> <p>1 No</p> <p>1 No</p> <p>1 No</p> <p>1 No</p> <p>1 No</p> <p>4 No</p>
MECHANICAL ENGG DEPARTMENT			
LIST OF MAJOR EQUIPEMENTS			
8	Mechanical Engg Dept	<ul style="list-style-type: none"> 1. Heat and mass transfer lab 2. Refrigeration and air conditioning lab 3. Engg Metrology lab 4. Industrial Engg Lab 5. Vibration Lab 6. I C Engine Lab/ Heat Power Engg 7. Hydraulics Lab 	
9	Heat and mass transfer lab	<ul style="list-style-type: none"> 1. Composite walls apparatus. 2. Lagged pipe. 	

		<ul style="list-style-type: none"> 3. Pin fin 4. Unsteady state. 5. Force convection . 6. Natural convection . 7. . Parallel flow/Counter flow. 8. Fin tube. i.Shell and tube. 9. Critical heat flux.k. Steafan-boltzman 	
10	Refrigeration and air conditioning lab	<ul style="list-style-type: none"> 1. Mini Air conditioning Tutor 	
11	Engg Metrology lab	<ul style="list-style-type: none"> 2. As 8038 Metallurgical microscope with circular & mechanical stage. 3. Torsional stroboscope. 4. Piezoelectric transducer. 5. Speed transducer. 6. Strain Indicator. 7. Pressure transducer. 8. Vernier scale. 9. Micrometer.(Outside ,Internal) (11 Nos.) 10.Screw Thread Micrometer (6 Nos.) 11.Slip gage. (2 Nos.) 12.Surface Plate(2 Nos.) 13.V Blocks(5 Nos.) 14.Engineering Square. (3 Nos.) 15.Radius, Filler & Thread Gage.(7 Nos.) 16.Spring Caliper (8 Nos.) 17.Sine bar (3 Nos.) 18.Dial Indicator. 19.Stop Watch (2 Nos.) 20.Protractor(Vernier bevel, Optical) (5Nos.) 21.Also other types of calipers, height gages. 	
12	Industrial Engg Lab	<ul style="list-style-type: none"> 1. Computer 2. Image processor 	03 01
13	I C Engine Lab/ Heat Power Engg	<ul style="list-style-type: none"> 1. Six cylinder Petrol Engine . 02 nos 2. Four cylinder Petrol Engine. 02 nos 3. Single cylinder Diesel Engine 01 no 4. Single cylinder Petrol Engine 02 no 5. Single cylinder two stroke Petrol Engine 01 no 6. Gear box 01no 7. Clutch assembly(single dry plate) 01no 8. Hydraulic brake system 01 pair 9. Steering box 	

		01no 10. Automobile electrical circuit 01no	
14	Hydraulics Lab	1. Francis Turbine with pump and accessories 2. Pelton turbine -----do----- 3. Kaplan turbine -----do-----	01 01 01
15	Workshop	1. Radial Drilling machine. 2. Milling machine. 3. Shaper Machine 4. Planer Machine 5. Lathe 6. Power saw 7. Abrasive cut Machine 8. Band saw 9. Capstan Lathe 10. Pillar Drill 11. Pedestal Grinding Machine 12. Carbide tool grinding	01 01 03 01 11 01 01 01 01 01 02
LIST OF MAJOR EXPERIMENTAL SET UP OF MECH ENGG DEPT			
16	Heat and mass Transfer lab	1. Set up for heat transfer through composite walls, Lagged pipes and Pjn Fin . 2. Set up for heat transfer through state, Force convection and Natural convection. 3. Set up for heat transfer through Parallel flow/Counter flow. 4. Set up for heat transfer through Finned tube heat exchanger 5. Set up for heat transfer through Shell and tube heat exchanger 6. Set up for Critical heat flux in boiling Set up for Stefan-boltzman	
18	Refrigeration and air conditioning lab	1. Set up of Air conditioner 2. Set up of open type reciprocating 3. Set up of Open type vapour compression system 4. Set up of vapour absorption refrigeration system	
19	Engg Metrology lab	1. Study of Micrometers. 2. Study & use of Vernier Callipers. 3. Measurement of angles by various methods. 4. Study of dial indicators & its use. 5. Measurement of screw threads.	

		6. Measurement of gears.	
20	Industrial Engg lab	Work study/ motion study set up	
21	Vibration lab	<ol style="list-style-type: none"> 1. Spring-dashpot arrangement. 2. Counter balancing apparatus 3. Torque measuring device 4. Whirling of shaft 	
22	I C Engine/ Heat Power lab	<ol style="list-style-type: none"> 1. Petrol engine test rig (single cylinder 2 stroke) – 01 no 2. Single cylinder Diesel engine test rig – 01 no 3. Calibration of pressure gauge – 01 no 	
23	Hydraulics lab	<ol style="list-style-type: none"> 1. Set up for verification of Bernoulli's equation. 2. Set up for flow through Wires and Notches. 3. Set up for discharge measurement by different flow meter. 4. Set up of pipe flow for major and minor losses. 5. Set up for impact of jet on different fixed plates. 6. Set up of Pelton turbine for performance testing. 7. Set up of Francis turbine for performance testing. 8. Set up of Kaplan turbine for performance testing. 	
1	Microprocessor Lab	<p>1. Setup for hands on practice on assembly language programming and also on experiments on study cards such as A/D converter D/A converter 8253 study card DMA and 8255 PPI, Study cards.</p> <p>Microprocessor based Thyristorised speed control of DC motor set up. Microprocessor based relay logic controller setup for process control application.</p>	
2	Electric Drives Lab.	<ol style="list-style-type: none"> i. Armature & Field control of D.C drives (open & closed loop) using static power converter ii. Speed control of squirrel cage I.M using B/F technique by PWM inverter(IGBT based) 	

		<ul style="list-style-type: none"> iii. D.C. Chopper drive controller using Jone's chopper for DC series drive iv. Slip power control scheme of SRIM using static controller (Static Kramer Drive) v. Intelligent power model for V/F vector of control of I.M and computerized chopper drive for D.C shunt motor. 	
3	Electrical Machines Lab./ Basic Elec. Engg laboratory	<ul style="list-style-type: none"> i. OC & AC test transformer ii. Open ckt. & Blocked rotor test of I.M. iii. V-Cures of synchronous motor. iv. Speed control SRIM by varying rotor resistances v. Armature & Field control of D.C shunt motor vi. Study of different types of transformer connection vii. Speed control of schrage motor by brush shifting 	
4	Control System & Instrumentation Laboratory	<ul style="list-style-type: none"> i. Position control of DC servo motor using P,PI, PD, PID controller ii. AC position controller iii. Experimental setup on different Transducer/sensor. iv. Other Experiments related to equipment listed such as A.C.Bridges. v. Experimental set up on A.C. and D. C. circuits. vi. Temperature control system etc. 	

- List of Experimental Setup

COMPUTING FACILITIES:

- Number and Configuration of Systems
No. of Computers: 57
Configuration of the Computer Systems are: Pentium I, Pentium II, Pentium III , Pentium IV(with latest configuration) and E-Server.
- Total number of systems connected by LAN
20 Nos in LAN
- Total number of systems connected to WAN
10 Nos (Internet)
- Internet bandwidth
250 Kbps(AICTE-ERNET VSAT)

- Major software packages available
DOS, MS Windows 2000 Professional, MS Windows XP, Fortran 77, Borland TC, Borland TC++, I Leap. Norton Antivirus.
- Special purpose facilities available
Tripura Engineering College Management Information System is under construction.

WORKSHOP:

The centralized workshop is composed of following shops :

- 1.Machine Shop.
- 2.Welding Shop
- 3.Carpentary Shop
- 4.Black Smith Shop
- 5.Fitting Shop
- 6.Moulding Shop
- 7.Sheet Metal Working Shop

All the shops are provided with adequate number of machines which are available to the students for their workshop classes and project work. Students are asked to get training in various shops through out their semester.

- **List of facilities available.**

Games and Sports Facilities:

There is an outdoor and indoor facilities for football , cricket ,volleyball and various types of indoor games which are enjoyed by the students throughout the year.

Extra Curricular Activities

Students are involved in extra curricular activities through NSS , NCC ,ISCT students chapter for debating , group discussions , campus beautification ,Photography and social work for the community.

Soft Skill Development Facilities

Humanities department gives the training for development of communication and external experts are also invited for soft skill development

Number of Classrooms and size of each

Total number of classrooms are **16** and their measuring area **1037 m2.**

Number of Tutorial rooms and size of each

Total numbers of tutorial rooms are 16 and their measuring area 1037m2

Number of laboratories and size of each

Total numbers of laboratories for various departments are **16** which are as follows.

Sl.No	Name of laboratories	Floor area (in m2)
1	High Voltage Laboratory	181.17
2.	Computer Laboratory.	42.59
3.	Electronics & Measurement Laboratory. (EE)	84.8
4	Survey Lab. (CE)	32.54
5	Computer Lab. (CSE)	59.76
6	Computer Lab. (CE)	42.59
7	Computer Lab. (ME)	42.59
8	Measurement Lab (ME)	42.59
9	Heat Transfer Lab (ME)	71.35
10	Environmental Lab (CE)	51.1
11	System Lab (CSE)	56.27
12	Hardware Lab (CSE)	56.12
13	PC Lab (CSE)	56.12
14	Digital Electronics Communication Lab (EE)	45.98

15	Electronics Lab (EE)	74.68
16	Workshop	2470

Number of drawing halls and size of each

Total of numbers of drawing halls are 4 and their size are as follows

1. Hall No. 232 and its size is 181.44 m²
2. Hall No. 321 and its size is 75.624 m²
3. Hall No. 122 and its size is 74.394 m²
4. Hall No. 114 and its size is 74.14 m²

Number of Computer Centres with capacity of each

Number of Computer centers is 4 nos. and their sizes are follows.

1. Computer Lab(Mechanical). 59.76 m²
2. Computer Lab.(Civil) 42.59 m²
3. Computer Lab(Electrical). 42.59 m²
4. Computer Lab.(Computer) 42.59 m²

Central Examination Facility, Number of rooms and capacity of each.

Teaching Learning process:

For Central Examination facilities 4 rooms of capacity 70 each

Curricula and syllabi for each of the programmes as approved by the University.

- Curricula and syllabi for each of the under graduate programme as proved by the University are enclosed herewith in annexure- **A**
- Academic Calendar of the University

Academic Calendar for the session 2005-2006 of Tripura Engineering College are as follows-

Sl.No	Event	Date
1	Commencement of 1 st semester classes	3 rd week of Aug.2005
2	Commencement of 3 rd , 5 th & 7 th semester classes	3 rd week of Aug.2005
3	Puja Vacation	10 th Oct.2005 to 31 st Oct.2005
4	1 st Periodical Exam (Odd semester)	1 st week of Nov.2005
5	Fresher's Welcome	3 rd week of Nov. 2005
6	Commencement of 2 nd Periodical Exam (Odd semester)	1 st week of Dec.2005
7	Preparatory leave for Odd semester final exam.,2006	3 rd week of Dec. 2005

8	Commencement of final Exam, 2005 (Odd semesters)	1 st week of Jan. 2006
9	Semesters break	Last week of Jan. 2006
10	Commencement of Provisional Even semester classes	2 nd week of Jan. 2006
11	Commencement of 1 st Periodical Exam (Even semester)	1 st week of March-2006
12	Commencement of 2 nd Periodical Exam (Even semester)	Last week of April-2006
13	Preparatory leave for Even semester	2 nd week of May-2006
14	Commencement of Final Exam, 2006 (Even semester)	3 rd week of May-2006
15	Summer vacation	10.5.2006 to 8.6.2006

➤ Academic Time Table

Necessary papers of academic time table are enclosed in annexure - B

➤ Teaching Load of each Faculty

Teaching Load of Faculty discipline wise are as follows

- i. Civil Engineering Dept.- 16-17 Classes per week per regular faculty. 7 classes per week per visiting lecturer.
 - ii. Electrical Engg. Dept.- 16-17 Classes per week per regular faculty. 7 classes per week per visiting lecturer
 - iii. Mechanical Engg. Dept.-16-17 classes per week per regular faculty. 7 classes per week per visiting lecturer
 - iv. Computer Sc. Engg.Dept-16-17 classes per week per regular faculty. 7 classes per week per visiting lecturer
- Internal Continuous Evaluation System and place
Periodical Test Examination, assignment, tutorial exam, seminars, group discussion overall performance of the class under the concerned teachers in the respective classroom.
- Students' assessment of Faculty, System in place.
Through internal assessment of 30% marks in each subject on the basis of tutorial examination, assessment of attendance in the class and good assignment of class works.

For each Post Graduate programme give the following: **Not applicable to T. Engg. College**

- i. Title of the programme
- ii. Curricula and Syllabi
- iii. Faculty Profile

SI	NAME	DESIGNATION	SUBJECT TEACHING
1.			
2.			
3.			

➤ Brief profile of each faculty.

- Laboratory facilities exclusive to the PG programme

Special Purpose

- Software, all design tools in case
- Academic Calendar and frame work
- Research focus
List of typical research projects.
- Industry Linkage
- Publications (if any) out of research in last three years out of masters projects
- Placement status
- Admission procedure
- Fee Structure
- Hostel Facilities
- Contact address of co-ordinator of the PG programme
Name:
Address:
Telephone:
E-mail:

NOTE: Suppression and/or misrepresentation of information would attract appropriate penal action.