

Mandatory Disclosures

The following information shall be given in the information Brochure besides being hosted on the Institution's official Website.

The onus of the authenticity of the information lies with the Institution ONLY and not on AICTE.

1. Name of the Institution

- ❖ Address including Telephone, Mobile, E-Mail

FUTURE INSTITUTE OF TECHNOLOGY

240, Boral Main Road, Garia, Kolkata-700154

Ph. : 033-24289046,

fit.principal@teamfuture.in

2.

3. Name and address of the Trust/ Society/ Company and the Trustees

- ❖ Address including Telephone, Mobile, E-Mail

FUTURE EDUCATION AND RESEARCH TRUST

P/7/2098 Sonarpur Station Road

Kolkata - 700150

Trustees

Mr. Silajit Ghosh , Chairman

Dr. Mousumi Ghosh – Trustee

Ms. Mrittika Ghosh – Trustee

Ms. Manjima Ghosh – Trustee

Address

16 A & B, Fort Legend

135, Meghnad Sarani

Kolkata-700029

4. Name and Address of the Vice Chancellor/ Principal/ Director

- ❖ Address including Telephone, Mobile, E-Mail

DR. ASHIS KUMAR DEY

281, Private Road, Dum Dum, Kolkata-700074

Phone : 033-24289045, Mob. : 8334858082

E-Mail : dey2ashis@gamil.com

5. Name of the affiliating University

MOULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY

6. Governance

❖ Members of the Board and their brief background

Sl No.	Name of the person concerned	Designation for representation in the Governing Body	Profession	Remarks
1	Prof. (Dr.) S. M. Chatterjee	Chairman	Eminent Educationist and Former Vice Chancellor – Bengal Science and Technology University	Nominee of the Trust
2	Sri Silajit Ghosh	Trust's Chairman	Chartered and Cost Accountant and Technopreneur	Nominee of the Trust
3	Prof. (Dr.) Mousumi Ghosh	Member	Founder Director, Team Future Former Faculty – Indian Institute of Management Calcutta, Former Director – UCO Bank, Technopreneur	Nominee of the Trust
4	Sri Somnath Mookerjee	Member	Management Consultant	Nominee of the Trust
5	Prof. (Dr.) Haripada Bhaumik	Member	Retd. Professor and Former Principal Govt. of Leather Technology	Nominee of the Trust
6	Dr. Amit Vishwasrao Salunkhe	Member (Ex-Officio)	Eastern Regional Officer	Nominee of AICTE
7	Dr. Amalendu Basu	Member (Ex-Officio)	Engineer / Teaching	Director of Technical Education, Govt. of West Bengal
8	Prof. (Dr) Dipak Ranjan Poddar	Member	Retired Professor Jadavpur University	Educationist
9	Prof. Nipu Modak	Member	Professor, JU (Teaching)	Nominee of the Affiliating University
10	Mr. Subir Kar	Member	Retired Vice President, Siemens Ltd	Technologist
11	Dr. Prasenjit Bhattacharyya	Member	Teaching	Nominee from the Asst. Professor
12	Dr. Samik Marick	Member	Teaching	Nominee from the Professor
13	Prof.(Dr.) Alope Kumar Ghosh	Member Secretary (Ex-Officio)	Executive Director, team Future Group of Institutions, Kolkata	Nominee of the Trust
14	Prof. (Dr.) Ashis Kumar Dey	Member Secretary (Ex-Officio)	Principal In Charge	Nominee of the Trust

Members of Academic Advisory Body

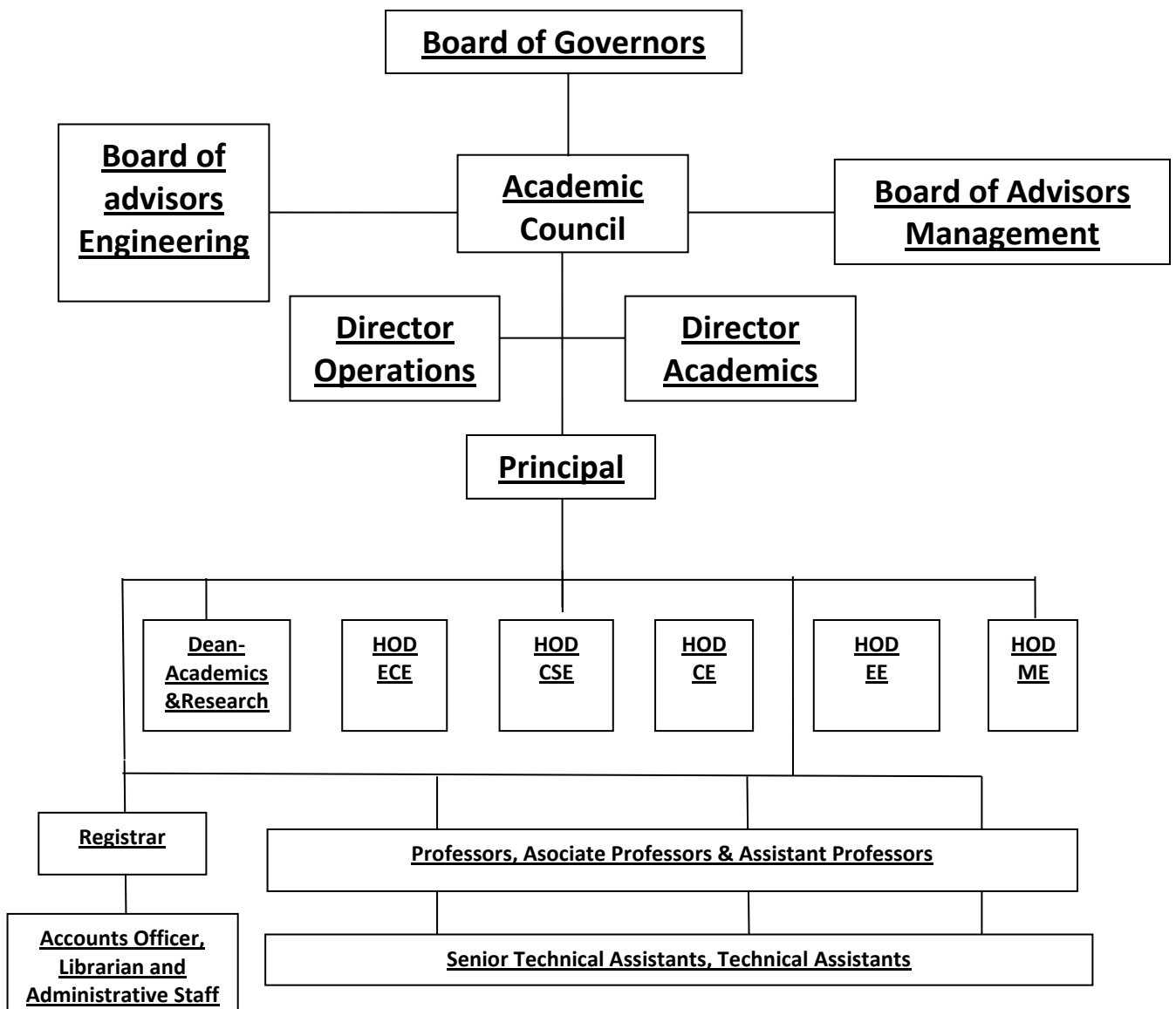
- Sri Alope Mookherjee– Chairman, Flakt India Ltd**
- Dr. Sujit Basu , Former VC, VBU**
- Dr D R Poddar, Former Professor, JU**
- Dr A K Datta, Former Professor, CU**
- Dr. Mousumi Ghosh- Former Professor IIM Calcutta**
- Sri Ahin Chowdhury- Barrister-in Law**
- Dr. Bhaskar Banerjee–Gp Executive Director, Bhukatir Group,UAE**
- Dr. H. Bhaumik– Former Principal, Govt of Leather Technology**
- Dr. Arpita Majumdar – CMC Ltd**
- Sri S K Datta- Formee Director UCO Bank**

❖ Frequently of the Board Meeting and Academic Advisory Body

Quarterly

❖ Organizational chart and processes

ORGANISATION CHART



- ❖ andement of Faculty and students in academic affairs/imprints

The institute has already formed the Mentoring systems and also formed the Various committees such as Disciplinary Committee, Academic Affairs Committee, Canteen Committee, Anti-ragging Committee, Sports committee, Anti-Sexual Harassment Committee, Internal Compliant Cell etc. with the involvement of students and faculty members.

- ❖ Mechanism/ Norms and Procedure for democratic/ good Governance

The committees chaired by a senior professor would submit here ports to the Principal for the processing and suitable implementation with the consent of the Management.

- ❖ Student Feedback on Institutional Governance/ Faculty performance

Student feedback is captured at the end of every internal test and compiled for compliance by the concerned faculty.

- ❖ Grievance Redressal mechanism for Faculty, staff and students

Grievance Redressal Cell has been formed which receives specific grievances of the faculty, staff and students, study the same and recommend appropriate redressals.

- ❖ Establishment of Anti Ragging Committee

Anti-Ragging Committee has been established, comprising the following personnel of the Institute.

Name	Designation	Department
Dr. Ashis Kumar Dey	Chairman	ME
Dr. Sambhu Das	Member	BSH
Dr. Samik Marick	Member	ECE
Ms. Subhasree Sengupta	Member	CSE
Ms. Sucharita Ghosh	Member	ECE
Mr. Ashesava Mazumdar	Member	BSH
Mr. Prakash Panja	Member	ADMIN
Mr. Kamalaksha Bhattacharya	Member	GUARDIAN
Mr. Rup Kumar Das	Member	GUARDIAN
Aritra Tripathi	Member	STUDENT
Pritom Banerjee	Member	STUDENT
Sayantika Dutta	Member	STUDENT

- ❖ Establishment of Online Grievance Redressal Mechanism

Online Grievance Redressal Mechanism is on place so that grievances can be lodged and disposal can be viewed online.

- ❖ Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University

Grievance Redressal Committee has been established, comprising the following personnel of the Institute.

Name	Designation	Department
Dr. Ashis Kr. Dey	Coordinator	ME
Mr. Amit Kr. Majumder	Associate Professor	ECE
Dr. Prasenjit Bhattacharyya	Asst. Professor	BSH
Ms. Subhasree Sengupta	Asst. Professor	CSE
Mr. Somdeb Pramanik	Asst. Professor	ME
Mr. Prakash Panja	Administrative Co-ordinator	ADMIN
Mr. Debayan Biswas	Student Representative	AIML

- ❖ Establishment of Internal Complaint Committee (ICC)

Internal Complaint Committee (ICC) has been established, comprising the following personnel of the Institute.

Name	Designation	Department
Ms. Sumedha Dasgupta	Presiding Officer	ECE
Ms. Subhasree Sengupta	Member	CSE
Ms. Hasnahana Khatun	Member	AIML
Mr. Raka Dutta	Member	LIBRARY
Dr. Prasenjit Bhattacharya	Member	BSH
Mr. Chandan Kr. Sarkar	Convener	ADMIN
Ms. Owendila Saha	Student Representative	CSE
Ms. Godhuli Sarkar	Student Representative	ECE
Ms. Oishee Deb	Student Representative	CSECS

- ❖ Establishment of Committee for SC/ ST

Committee for SC/ST has been established, comprising the following personnel of the Institute.

Name	Designation	Department
Dr. Ashis Kr. Dey	Chairman	ME
Mr. Amit Kumar Majumder	Member	ECE
Mr. Tamal Dutta	Member	EE
Mr. Jayanta Naskar	Member	ME
Mr. Subrata Baidya	Member	EE
Mr. Bapi Biswas	Member	ECE
Ms. Dyuti Majumdar	Member	ECE
Mr. Chandan Kr. Sarkar	Convener	ADMIN

- ❖ Internal Quality Assurance Cell

Internal Quality Assurance Cell has been established, comprising the following personnel of the

Institute to develop a system for conscious, consistent and catalytic improvement in the performance of the Institution

Name	Designation	Department
Dr. Ashis Kr. Dey	Chairperson	ME
Dr. Samik Marick	Coordinator	ECE
Dr. Debopriyo Ghosal	Member	BSH
Ms. Subhasree Sengupta	Member	CSE
Mr. Amit Kumar Majumder	Member	ECE
Mr. Prakash Panja	Member	ADMIN
Ms. Sreya Debnath	Student Nominee	CSE

7. Programmes

- ❖ Name of Programmes approved by AICTE

ENGINEERING AND TECHNOLOGY

- ❖ Name of Programmes Accredited by AICTE

Not Applicable

- ❖ Status of Accreditation of the Courses

Total number of Courses

No. of Courses for which applied for Accreditation

Status of Accreditation – Preliminary/ Applied for SAR and results awaited/ Applied for SAR and visits completed/ Results of the visits awaited/ Rejected/ Approved for

Courses

Not Applicable

- ❖ For each Programme the following details are to be given:

- ❖ Name
- ❖ Number of seats
- ❖ Duration
- ❖ Cut off marks/rank of admission during the last three years
- ❖ Fee
- ❖ Placement Facilities

Name	No. of Seats	Duration	Cut of Marks/rank of admission during the last 3 yrs.	Fee	Place ment Facili ties
1. Computer Science and Engineering	60	4Yrs	2019 : 6253 2020 : 21489 2021 : 21556	84,000 1 st yrs. 88,000 2 nd yrs 90,000 3 rd yrs. 92,000 4 th yrs.	YES
2. Electronics and Communication Engineering	60	4Yrs	2019 : 18260 2020 : 20314 2021 : 40819	84,000 1 st yrs. 88,000 2 nd yrs 90,000 3 rd yrs.	YES

				92,000 4 th yrs.	
3. Mechanical Engineering	60	4Yrs	2019 : No Admission 2020 : NA 2021 : NA	84,000 1 st yrs. 88,000 2 nd yrs. 90,000 3 rd yrs. 92,000 4 th yrs.	YES
4. Electrical Engineering	30	4Yrs	2019 : 14113 2020 : 29467 2021 : 40008	84,000 1 st yrs. 88,000 2 nd yrs. 90,000 3 rd yrs. 92,000 4 th yrs.	YES
5. Civil Engineering	30	4Yrs	2019 : 30349 2020 : NA 2021 : NA	84,000 1 st yrs. 88,000 2 nd yrs. 90,000 3 rd yrs. 92,000 4 th yrs.	YES
6. Computer Science and Engineering (Artificial Intelligence and Machine Learning)	60	4Yrs	2019 : NA 2020 : 21860 2021 : 35077	84,000 1 st yrs. 88,000 2 nd yrs. 90,000 3 rd yrs. 92,000 4 th yrs.	YES
7. Computer Science And Engineering (Internet of Things and Cyber Security including Block Chain Technology)	60	4Yrs	2019 : 21860 2020 : 21860 2021 : 35077	84,000 1 st yrs. 88,000 2 nd yrs. 90,000 3 rd yrs. 92,000 4 th yrs.	YES

- ❖ Campus placement in last three years with minimum salary, maximum salary and average salary

Year	Minimum Salary	Maximum Salary	Average Salary
2019	1.2 lakh	4.8 lakh	3.0 lakh
2020	1.7 lakh	16.8 lakh	8.3 lakh
2021	2.1 lakh	10.0 lakh	6.25 lakh

- ❖ Name and duration of programme(s) having Twinning and Collaboration with Foreign University(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 University
 - ❖ Name of the University
 - ❖ Address
 - ❖ Website
 - ❖ Accreditation status of the University in its Home Country

Not Applicable

- ❖ Ranking of the 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

Not Applicable

- ❖ For each Programme Collaborated provide the following:
 - ❖ Programme Focus

- ❖ Number of seats
- ❖ Admission Procedure
- ❖ Fee
- ❖ Placement Facility
- ❖ Placement Records for last three years with minimum salary, maximum salary and average salary

Not Applicable

- ❖ Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign University has applied to AICTE for approval

Not Applicable

8. Faculty

- ❖ Branch wise list Faculty members:
 - ❖ Permanent Faculty
 - ❖ Adjunct Faculty
 - ❖ Permanent Faculty: Student Ratio

1. Faculty Name	2. Permanent Faculty	3. Adjunct Faculty	4. Permanent faculty : Student Ratio
Computer Science and Engineering			
1. Mr. Samir Ghosh 2. Mr. Subham Chakraborty 3. Ms. Subhasree Sengupta 4. Mr. Ashis Pramanick 5. Mr. Anup Sar	Yes		20
Computer Science and Engineering (Artificial Intelligence and Machine Learning)			
1. Dr. Pradipta Kr. Banerjee 2. Ms. Hasnahana Khatun 3. Mr. Arnab Hazra 4. Mr. Sourav Das	Yes		20
Computer Science And Engineering (Internet of Things and Cyber Security including Block Chain Technology)			
1. Samiran Basak 2. Sanjoy Banerjee 3. Chittabarni Sarkar	Yes		20
Electronics and Communication Engineering			
1. Mr. Shubhajit Pradhan 2. Mr. Amit Kumar Majumder 3. Mr. Sourav Pal 4. Mr. Avishek Banerjee 5. Dr. Samik Marick 6. Ms. Rupa Das	Yes		20

7. Ms. Sucharita Ghosh			
8. Ms. Dyuti Majumdar			
MECHANICAL ENGINEERING			
1. Dr. Ashis Kr. Dey	Yes		20
2. Mr. Somdeb Pramanik			
ELELCTRICAL ENGINEERING			
1. Mr. Tamal Dutta			
2. Mr. Abhisek Majumder			
3. Mr. Arijit Mukherjee	Yes		20
4. Mr. Supratik Datta			
CIVIL ENGINEERING			
1. Mr. Arpan Manna			
2. Mr. Subhyan Chaudhuri	Yes		20
BASIC SCIENCE AND HUMANITIES			
1. Dr. Sambhu Das			
2. Dr. Prasenjit Bhattacharya			
3. Mr. Tirtha Roy Chowdhury			
4. Mr. Anupal Chowdhury			
5. Dr. Arnab Chakraborty			
6. Dr. Debopriyo Ghoshal	Yes		20
7. Mr. Ashesava Mazumadar			
8. Mr. Saoumik Basu			
9. Mr. Sharmishtha Banerjee			
10. Mr. Asis Mangol Maiti			

❖ Number of Faculty employed and left during the last three years

Number of Faculty Employed :

2019 : 04

2020 : 08

2021 : 05

Number of Faculty Left :

2019 : 02

2020 : 01

2021 : 11

9. Profile of Vice Chancellor/ Director/ Principal/ Faculty

For each Faculty give a page covering with Passport size photograph

❖ Name : **DR. ASHIS KUMAR DEY**

❖ Date of Birth : 4th June 1965

❖ Unique id : 1-4716843163

❖ Education Qualifications : M. Tech. Ph.D

❖ Work Experience

Teaching : 19 Yrs.

Research : 04 Yrs.

Industry : 15 Yrs.

others :

❖ Area of Specialization : Materials Science and Engineering

❖ Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level

Under Graduate

- ❖ Research guidance
 - No. of papers published in National/ International Journals/ Conferences
 - Master
 - Ph.D.
 - ❖ Projects Carried out : No
 - ❖ Patents : No
 - ❖ Technology Transfer : No
 - ❖ Research Publications
- International Journals : 03, Conferences : 02
- ❖ No. of Books published with details : No

10. Fee

- ❖ Details of fee, as approved by State Fee Committee, for the Institution

Tuition Fees –Rs 82,000 First year and thereafter Rs.4000/- in Second year and thereafter Rs. 2000/- increase in subsequent years

- ❖ Time schedule for payment of fee for the entire programme

At the beginning of each semester (usually 15th June and 15th December each year)

- ❖ No. of Fee waivers granted with amount and name of students

Year	No. of Fee waivers	Amount (Rs.)	Name of Students
2019-20	CSE	384700	1. Mr. Soumyadeep Chakraborty
2020-21	CSE	384700	1. Mr. Pratap Kar 2. Mr. Siddarth Jha 3. Mr. Subrata Kudu
2021-22	CSE	384700	1. N/A 2. N/A
2019-20	ECE	384700	1. Mr. Chandan Roy 2. Mr. Sudarshan Kumar Mishra 3. Samrat Dey
2020-21	ECE	384700	1. Mr. Ankur Mondal 2. Mr. Md. Kashif Hussain 3. Ms. Srishti Manna
2021-22	ECE	332000	1. N/A

2019-20	EE	332000	1. N/A
2020-21	EE	332000	1. N/A
2021-22	EE	332000	1. N/A
2016-17	CE	332000	1. Mr. Avijit Thakur 2. Mr. Syed AltamasMotin 3. Mr. Subir Mukherjee
2017-18	CE	332000	1. Mr. Ankan Sarkar 2. Mr. Rakesh Narayan Mishra
2018-19	CE	332000	1. Ms. Suparna Mondal 2. Mr. Lachhman Rajbanshi

- ❖ Number of scholarship offered by the Institution, duration and amount

No. of Scholarship	Duration	Amount
43	2019-20	2928000
20	2020-21	1635000
24	2021-22	1200000

- ❖ Criteria for fee waivers/scholarship

As per rule of State Govt.

- ❖ Estimated cost of Boarding and Lodging in Hostels

Not Applicable

11. Admission

- ❖ Number of seats sanctioned with the year of approval

60 Each Discipline (300)

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

Year	Discipline	No of students
2019-20	Computer Science And Engineering	54
2020-21	Computer Science And Engineering	24
2021-22	Computer Science And Engineering	58
2019-20	Electronics and Communication Engineering	47
2020-21	Electronics and Communication Engineering	12
2021-22	Electronics and Communication Engineering	0
2019-20	Mechanical Engineering	0
2020-21	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	27
2021-22	Computer Science and Engineering (Artificial	46

	Intelligence and Machine Learning)	
2020-21	Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	11
2021-22	Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	14
2019-20	Electrical Engineering	06
2020-21	Electrical Engineering	0
2021-22	Electrical Engineering	0
2019-20	Civil Engineering	04
2020-21	Civil Engineering	0
2021-22	Civil Engineering	0

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

2020-21	Applns recd: 00	Admitted : 00
2021-22	Applns recd: 00	Admitted : 00

12. Admission Procedure

- ❖ Mention the admission test being followed, name and address of the Test Agency and its URL (website)

WBJEE conducted by Government of WB
JEE Main test conducted at All-India level

www.wbjeeb.nic.in

- ❖ Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test)

10% Seats are filled up from JEE Main through centralized counseling.

80% Seats are filled up from WBJEE through centralized counseling.

10% Seats are filled up through Management quota.

- ❖ Calendar for admission against Management/vacant seats:
- ❖ Last date of request for applications
- ❖ Last date of submission of applications
- ❖ Dates for announcing final results
- ❖ Release of admission list (main list and waiting list shall be announced on the same day)
- ❖ Date for acceptance by the candidate (time given shall in no case be less than 15 days)
- ❖ Last date for closing of admission
- ❖ Starting of the Academic session
- ❖ The waiting list shall be activated only on the expiry of date of main list
- ❖ The policy of refund of the fee, in case of withdrawal, shall be clearly notified

All the above information are announced / published on the institute website
www.futureengineering.in accordingly

13. Criteria and Weightages for Admission

- ❖ Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.
- ❖ Mention the minimum level of acceptance, if any
- ❖ Mention the cut-off levels of percentage and percentile score of the candidates in the admission test for the last three years
- ❖ Display marks scored in Test etc. and in aggregate for all candidates who were admitted

All the above information are announced / published on the institute website www.futureeducation.in/fit and also on institute NOTICE Board

14. List of Applicants

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

All the above information are announced / published on the institute website www.futureeducation.in/fit and also on institute NOTICE Board

15. Results of Admission Under Management seats/Vacant seats

- ❖ Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)
- ❖ Score of the individual candidate admitted arranged in order of merit □ List of candidate who have been offered admission
- ❖ Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate
- ❖ List of the candidate who joined within the date, vacancy position in each category before operation of waiting list

All the above information are announced / published on the institute website www.futureeducation.in/fit and also on institute NOTICE Board

16. Information of Infrastructure and Other Resources Available

- ❖ Number of Class Rooms and size of each

22, 66sq.m each

- ❖ Number of Tutorial rooms and size of each

05, 33sq.m each

- ❖ Number of Laboratories and size of each

56, 66sq.m each

- ❖ Number of Drawing Halls with capacity of each

01, 60

- ❖ Number of Computer Centres with capacity of each

01, 60

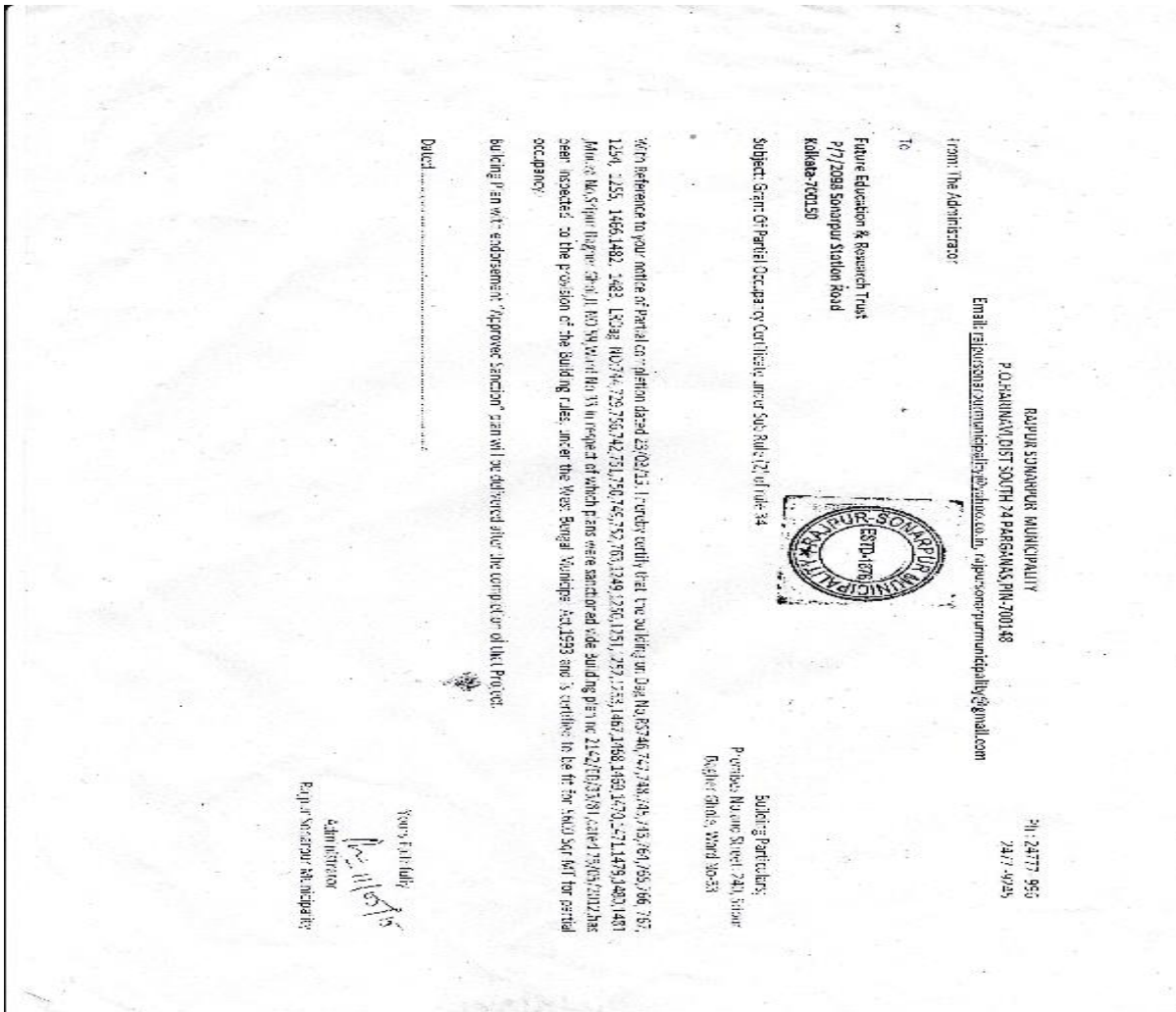
- ❖ Central Examination Facility, Number of rooms and capacity of each

01, 120

- ❖ Barrier Free Built Environment for disabled and elderly persons

Yes

- ❖ Occupancy Certificate



- ❖ Fire and Safety Certificate

Yes

❖ Hostel Facilities

No.

❖ **Library**

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

Programme	Books	Titles	Journals
Computer Science and Engineering	3490	293	02
Electronics and Communications Engineering	2981	292	03
Mechanical Engineering	2552	252	02
Electrical Engineering	2960	235	02
Civil Engineering	2390	212	03
Basic Science and Humanities	3210	163	

- ❖ List of online National/ International Journals subscribed

- ❖ E- Library facilities

Library Manage Systems (LIBSYS)

❖ **Laboratory and Workshop**

- ❖ List of Major Equipment/Facilities in each Laboratory/ Workshop
- ❖ List of Experimental Setup in each Laboratory/ Workshop

Soil Mechanics Lab I

Code: CE493

SL NO	LIST OF EXPERIMENTS AS PER MAKAUT	LIST OF EQUIPEMENTS	QUANTITY
1	Determination of Insitu density by core cutter method & sand replacement method.	Core Cutter	3
2	Grain size distribution of cohesionless soil by sieving & fine grained soil by hydrometer analysis.	Sieve & Sieve shaker	
3	Liquid limit	Casagrande Apparatus	3
4	Determination of co- efficient of permeability by constant head pemeameter (coarse grained soil) & variable head parameter (fine grained soil).	Falling head Permeameter& Constant head Permeameter	1
5	Standard Proctor Test	Standard Proctor	3
6	Weight Machine		2
7	Sand replacement	Sand Replacement	3

Surveying Practice I

Code:CE392

SL NO	LIST OF EXPERIMENTS	LIST OF EXPERIMENTS AS PER MAKAUT	QUANTITY
1	Chain surveying Preparing index plans, Location sketches, Ranging, Preparation of map,	Chain , Ranging rod	3

	Heights of objects using chain and ranging rods, Getting outline of the structures by enclosing them in triangles/ quadrilaterals, Distance between inaccessible points, Obstacles in chain survey.		
2	Compass surveying Measurement of bearings, Preparation of map, Distance between two inaccessible points by chain and compass, Chain and compass traverse	Prismatic Compass	5
3	Plane Table survey Temporary adjustments of plane table and Radiation method, Intersection, Traversing and Resection methods of plane tabling, Three-point problem	Plane Table Board with Plane Table instruments	6
4	Leveling Temporary adjustment of Dumpy level, Differential levelling , Profile leveling and plotting the profile, Longitudinal and cross sectioning, Gradient of line and setting out grades, Sensitiveness of Bubble tube	Dumpy level, Auto level	2+5=7
5	Contouring Direct contouring, Indirect contouring – Block levelling , Indirect contouring – Radial contouring, Demonstration of minor instruments	Auto level	5

Surveying Practice II Code: CE492

SL NO	LIST OF EXPERIMENTS	LIST OF EQUIPEMENTS	QUANTITY
1	Traversing by Using Theodolite: Preparation of Gales Table from field data	Digital Theodolite	3
2	Traversing by using Total Station	Total Station	1
3	Use of Total Station for leveling and Contouring	Total Station	1
4	Setting out of Simple Curves	Digital Theodolite	3

CONCRETE LABORATORY Code CE 592

SL NO	Name of Experiment	Name of instrument	Quantity
1	Soundness	La -chatelier	1
2	Normal consistency, Setting time	VicatAppratus	1
3	Compressive strength on cement mortar cubes	CTM	1
4	Workability	Slump Cone	1
5	Vee-Bee	Vee-Bee Apparatus	1
6	Rebound hammer test	Rebound hammer	1
7	Compaction Factor Test	Compaction factor Apparatus	1
8	Compaction of Concrete	Vibrating table	1
9	Weight machine	Weight Machine	1
10	Mixing Of Concrete	Mixing Machine	1

**Engineering Geology Lab
Code-CE 593**

SL NO	Name of Experiment	Required Instrument	Quantity
1	Study of crystals with the help of crystal models	Crystal models	20
2	Identification of Rocks and Minerals [Hand Specimens]	Rocks and Minerals hand specimen	20+20=40
3	Microscopic study of Rocks and minerals	Polarizing Microscope	2
4	Study of Geological maps, interpretation of geological structures Thickness problems, Bore-hole Problems	Geological maps	20

**Highway Engineering Lab.
Code : CE691**

SL NO	Name of Experiment	Required Instrument	Quantity
1	Impact value	Impact value testing Machine	1
2	Los-Angeles Abrasion	Abrasion testing Machine	1
3	Water absorption, Specific gravity	Water absorption, Specific gravity testing Machine	1
5	Softening point	Rim & Ball	1
6	Penetration value,	Penetration testing Machine	1
7	Flash & Fire point	Flash & Fire point	1
8	Stripping value test	Stripping value Testing Machine	1
10	CBR Test	CBR	1
11	Design of B.C. & S.D.B.C. Mix, Marshal Stability Test	Marshal Stability Testing Machine	1
12	Benkelman beam Test.	Bankelman beam testing machine	1

**Soil Mechanics Lab.-II
Code-CE591**

SL NO	LIST OF EXPERIMENTS	LIST OF EQUIPEMENTS	QUANTITY
1	Determination of compressibility characteristics of soil by Oedometer test (co-efficient of consolidation & compression Index)	Consolidometer	1
2	Determination of unconfined compressive strength of soil	Unconfined Compressive Strength Testing Machine	1
3	Determination of Shear parameter of soil by Direct shear test	Direct Shear Apparatus	1
4	Determination of undrained shear strength of soil by Vane shear test.	Vane shear testing machine	1

5	Determination of shear parameter of soil by Triaxial test (UU)	Traxial apparatus	1
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DEPARTMENT : ECE

List of available labs	Major Instruments & tools in the lab	Quantity
Basic Electronics Lab	CRO	8
	Function Generator	8
	Dual Power Supply	8
	Universal Trainer Kit	8
Analog Electronics Lab / Solid State Devices Lab	DSO	8
	Function Generator	8
	Dual Power Supply	8
	Universal Trainer Kit	8
Digital Electronics Lab / Computer Organization Lab	Trainer Kit	10
	Digital Multimeter	6
	Digital IC Tester	1
Software Lab (Signal & Systems Lab / Circuit Theory Lab / DSP Lab / VLSI Lab)	Computer	30
	Online UPS ()	1
	Laserjet Printer	1
	FPGA Kit (SPARTAN 6)	8
	DSP Kit (6713)	2
Microprocessor and Microcontrollers Lab/ Design Lab	8085 Trainer Kit	10
	8051 Trainer Kit	5
	Digital Multimeter	6
	DSO	2
	Computer	4
	Stand Alone UPS	2
	Stepper Motor Interfacing Module with Motor	2
	DAC Interfacing Module	2
	KB & DSPL Interfacing Module	2
	Traffic Light Interfacing Module	2
	ADC Interfacing Module	2
Anlog Communication Lab / Digital Communication Lab	CRO	2
	DSO	12
	Function Generator	12
	Spectrum Analyser	1
	Distortion Meter	1
	Computer	2
	Stand alone UPS	1
	AM Transmitter and Receiver	7
Digital Communication kiT	8	

	Trainer Kit(Universal)	10
	Power Supply	6
	Data Generator	2
Em Theory & Tx Line Lab / Microwave Lab	CRO	3
	GUNN SET UP-TEST BENCH	3
	KLYSTRON SET UP-TEST BENCH	5
	POWER METER	1
	Spectrum Analyser	1
	Antenna Trainer	2
	PC	3
	Stand alone UPS	2
	PRINTER	1
	Transmission Line SET UP	2

MECHANICAL ENGINEERING DEPARTMENT

NAME OF LAB	PAPER CODE	MAJOR EQUIPMENTS/EXPERIMENTAL SETUP
WORKSHOP/MAUFACTURING PRACTICES	ES ME 192 & ES ME 292	LATHE MACHINE SHAPER MACHINE MILLING MACHINE DRILLING MACHINE ARC WELDING
ENGINEERING GRAPHICS & DESIGN , MACHINE DRAWING 1, DESIGN PRACTICE I	ES ME 191 & ES ME 291,ME 391,ME 593	DRAWING BOARDS & STOOLS
APPLIED MECHANICS LAB MATERIAL TESTING LAB	ME 393 ME 493	VARIGNON'S THEOREM SETUP SPRING TESTING M/C UNIVERSAL TESTING M/C TORSION TESTING M/C HARDNESS TESTING [ROCKWELL & BRINELL] FATIGUE TESTING OPTICAL MICROSCOPE
WORKSHOP PRACTICE II	ME 392	WOOD TURNING LATHE MIG WELDING SPOT WELDING FOUNDRY SECTION & FORGING MUFFEL FURNACE PLANNER
FLUID MECHANICS & HYDRAULIC M/C	ME 491	PELLTON TURBINE BERNOULLI'S THEOREM MAJOR & MINOR LOSSES IN PIPES ORIFICEMETER VENTURIMETER NOTCH APPARATUS METACENTRIC HEIGHT DETERMINATION CENTRIFUGAL PUMP HYDRAULIC FLUME

METROLOGY & MEASUREMENT	ME 594	SURFACE ROUGHNESS TESTER SINE BAR SLIP GAUGE MICROMETER VERNIER BEVEL PROTRACTOR STRAIN GAUGE
ADVANCED MANUFACTURING TECHNOLOGY	ME 791	CNC LATHE TRAINER
MACHINE DRAWING II & DESIGN PRACTICE II	ME 494 & ME 693	PC WITH INSTALLED AUTOCAD AND SOLIDWORKS SOFTWARE
AIR CONDITIONING & REFRIGERATION	ME 695A	VAPOUR COMPRESSION TEST RIG AIR CONDITIONING TEST RIG THERMOELECTRIC TEST RIG
DYNAMICS OF MACHINES	ME 694	STATIC & DYNAMIC BALANCING GOVERNOR OPERATION AND ANALYSIS GYROSCOPE CAM VIBRATION ANALYSIS BALANCING OF RECIPROCATING MASSES
HEAT TRANSFER LAB	ME 592	SINGLE STAGE AIR COMPRESSOR THERMAL CONDUCTIVITY OF METAL ROD SHELL & TUBE HEAT EXCHANGER THERMAL CONDUCTIVITY OF INSULATING POWDER EMISSIVITY DETERMINATION FORCED CONVECTION OVER PIN FIN SEPARATING AND THROTTLING CALORIMETER
APPLIED FLUID MECHANICS LAB	ME 595B	CAVITATION TEST RIG SUBMERGED JET APPARATUS VERIFICATION OF STOKES LAW PUMPS IN SERIES & PARALLEL RECIPROCATING PUMP
THERMAL POWER ENGINEERING LAB IC ENGINE LAB	ME EE 481 ME 692	CUT MODELS OF BOILERS AND IC ENGINES PETROL ENGINE [MULTICYLINDER] DIESEL ENGINE [SINGLE CYLINDER] [VCR] BOMB CALORIMETER

		FLASH POINT FIRE POINT CLOUD POINT, POUR POINT APPARATUS SEPARATING AND THROTTLING CALORIMETER
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DEPARTMENT : ELECTRICAL

SL. NO.	LABORATORY NAME	SUBJECT CODE	MAJOR EQUIPMENTS/ SET UPS
1	Basic Electrical Engineering Laboratory	ES-EE-191, ES191 (OLD) & ES291(OLD)	<ol style="list-style-type: none"> 1. Set up of Characteristics of Fluorescent Lamp. 2. Set up of Characteristics of Tungsten & Carbon filament Lamp. 3. Thevenin's Theorem Trainer Kit 4. Norton's Theorem Trainer Kit 5. Maximum Power Transfer Theorem Trainer Kit 6. Superposition Theorem Trainer Kit 7. Set up of Study of RLC Series circuit 8. Set up of Study of RLC Parallel circuit 9. Set up of Open Circuit & Short Circuit Test of Single Phase Transformer 10. Set up of No load Characteristics of DC shunt Generator 11. Set up of starting, reversing and speed control of a DC shunt motor 12. Set up of Measurement of power in a three phase circuit by two wattmeter method 13. Set up of Calibration of Ammeter & Voltmeter
2	Electrical & Electronics Measurement Laboratory	EE-492	<ol style="list-style-type: none"> 1. Single Phase Energy Meter (Qty-4) 2. Open type PMMC Voltmeter portable with mirror scale 3. Open type dynamometer type wattmeter 4. Rectifier Block 5. AC/DC Power supply 6. Single Phase variac (Qty-2) 7. Three Phase variac (Qty-1) 8. DC Potentiometer (Qty-2) 9. DC Regulated Power Supply (Qty-4) 10. Load Box (Qty-2) 11. Rheostat (Qty-5) 12. Current Transformer & Potential Transformer 13. Wien Bridge 14. Anderson Bridge 15. De-Sauty Bridge 16. Schering Bridge 17. Kelvin Double Bridge 18. CRO (Qty-01)

SL. NO.	LABORATORY NAME	SUBJECT CODE	MAJOR EQUIPMENTS/ SET UPS
3	Electrical Machines Laboratory	EE 491 & EE 591	<ol style="list-style-type: none"> 1. Set up for Study of the characteristics of a separately excited DC Generator 2. Set up for Study the Characteristics of a DC shunt motor 3. Set up for Speed control of a DC shunt Motor 4. Set up for Study the Characteristics of a DC Compound Generator (Short Shunt). 5. Set up for Measurement of Speed of DC Series Motor as a Function of Load Torque. 6. Set up for Set up for Study of the equivalent circuit of a single phase Transformer 7. Set up for Polarity test on a 1-Φ Transformer and Study of different connections of a 3-Φ Transformer. 8. Set up for Study of Performance of 3-Φ Wound Rotor Induction Motor under Load (Generator). 9. Set up for Study of equivalent circuit of 3-Φ Induction Motor by no-load and blocked rotor test. 10. Set up for Different methods of starting of 3Φ Squirrel Cage Induction Motor & their comparison. 11. Set up for Speed control of 3Φ Squirrel Cage Induction Motor by V/f control. 12. Set up for Speed control of 3Φ Wound rotor Induction Motor by varying the rotor resistances. 13. Set up for Determination of regulation of an Alternator by portier reactance Method. 14. Set up for Determination of equivalent circuit parameters of a 1-Φ Induction Motor. 15. Set up for Load test on a 1-Φ Induction Motor & deriving its performance. 16. Set up for Characteristics to determine the direct axis reactance & quadrature axis reactance of Salient pole Alternator. 17. Set up for V-curve of Synchronous motor. 18. Set up for Operation of Induction machine as an induction generator. 19. Distribution panel with 415 V/25A isolation transformer

SL. NO.	LABORATORY NAME	SUBJECT CODE	MAJOR EQUIPMENTS/ SET UPS
4.	Power System Laboratory	EE 592 & EE 692	<ol style="list-style-type: none"> 1. Set up for Determination Of the Generalized Constant A, B, C, D Of A Long Transmission Line. 2. Set up for Simulation Of D.C. Distribution By Network Analyzer. 3. Set up for Measurement Of Earth Resistance By Earth Tester. 4. Set up for Dielectric Strength Test Of Insulating Oil.

			<p>5. Set up for Determination Of Breakdown Strength Of Solid Insulating Material.</p> <p>6. Set up for Different Parameter Calculation By Power Circle Diagram.</p> <p>7. Set up for Study Of Different Types Of Insulator.</p> <p>8. Set up for Active and Reactive power control of Alternator.</p> <p>9. Set up for Dielectric Constant, Tan delta Resistivity, Resistivity Test Of Transformer Oil.</p> <p>10. Set up for Study On (A) On Load Time Delay Relay, (B) Off Load Time Delay Relay.</p> <p>11. Set up for Polarity Test, Ratio Test And Magnetization Characteristics Of C.T & P.T.</p> <p>12. Set up for Study And Testing On Under voltage Relay.</p> <p>13. Set up for To Study The Earth Protection By Earth Fault Relay.</p> <p>14. Set up for Study of DC load flow.</p> <p>15. Set up for Study of different characteristics of over current relay.</p>
5.	Control System(Hard ware) Laboratory	EE 593 & EE 691	<p>1.Position Control using DC Servomotor Kit</p> <p>2. AC position control Kit</p> <p>3. Compensation Design Kit</p> <p>4. PID Controller Kit</p> <p>5. Linear System Simulator Kit</p> <p>6. DC Motor Speed control Kit</p> <p>7. DSO (Qty-03)</p> <p>8. Function Generator(Qty-01)</p> <p>9. CRO (Qty-01)</p>

SL. NO.	LABORATORY NAME	SUBJECT CODE	MAJOR EQUIPMENTS/ SET UPS
6.	Power Electronics & Drives Laboratory	EE 693 & EE 791	<p>1. Step down chopper trainer kit</p> <p>2. SCR characteristics trainer kit</p> <p>3. TRIAC characteristics trainer kit</p> <p>4. Trainer Kit for SCR Triggering Circuit</p> <p>5. Trainer Kit for Bridge converter Firing circuit</p> <p>6. Trainer Kit for Full controlled SCR fired Bridge converter with R & RL Load</p> <p>7. Trainer Kit for half controlled SCR fired Bridge converter with R & RL Load</p> <p>8. PWM MOSFET based single phase inverter Kit</p> <p>9. Set up for Phase control DC motor drive</p> <p>10. Set up for Chopper control DC motor drive</p> <p>11. Set up for Speed control of AC motor by V/f Drive</p> <p>12. Set up for Speed control of DC motor using PLC</p> <p>13. High voltage Differential Probe (Qty-03)</p> <p>14. DSO (Qty-08)</p> <p>15. CRO (Qty-02)</p>
7	Microprocessor & Micro Controller Laboratory	EE 594C	<p>1. 8085 Trainer Kit (Qty-10)</p> <p>2. DSO (Qty-03)</p> <p>3. Development Board for PIC 16F477A with PICKit 2 Programmer</p> <p>4. Development Board for PIC 18F4550 with</p>

			PICKit 3 Programmer 5. Development Board for 8051 with HEX200 Programmer 6. Microcontroller ATmega 328 based Arduino Development Board (Qty-01) 7. Function Generator (Qty-02)
8.	System Design Laboratory	EE 782 & EE 882	1. Set up for Transformer Coil winding machine 2. Disassemble of three phase Squirrel cage induction motor 3. Disassemble of DC shunt motor 4. Disassemble of synchronous motor 5. Model of three phase transformer 6. Display of different types of cables 7. DSO (Qty-01)

DEPARTMENT : CSE

Lab 1	Networking lab experiments under windows, linux	Op. System lab experiments under linux	VB programming lab under windows		
Lab 2	C programming lab experiments under Linux, windows	Database lab with oracle under windows	C Prog. Lab experiments under Windows, Linux.	Algorithm lab under windows	DS lab experiments under windows
Lab 3	Comp Architecture lab	Database lab with oracle under windows	Algorithm lab experiments with C under windows		
Lab 4	OOP lab experiments under windows	VB lab experiments	Algorithm lab experiments under windows		
CC LAB	C programming lab using open source	Data Structure lab using C under windows			

CSE-Artificial Intelligence and Machine Learning

Semester	Course Name	Subject Code
1 st semester	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B) (Basic Science course)	BS-PH191/ BS-CH191

	Basic Electrical Engineering Laboratory (Engineering Science Courses)	ES-EE191
	Engineering Graphics & Design(Gr-B)/ Workshop/Manufacturing Practices(Gr-A) (Engineering Science Courses)	ES-ME191/ ES-ME192
2nd semester	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A) (Basic Science course)	BS-PH291/ BS-CH291
	Programming for Problem Solving (Engineering Science Courses)	ES-CS291
	Engineering Graphics & Design(Gr-A)/ Workshop/Manufacturing Practices(Gr-B) (Engineering Science Courses)	ES-ME291/ ES-ME292
	Language Laboratory (Humanities and Social Sciences including Management courses)	HM-HU291
3rd semester	Analog & Digital Electronics Lab	ESC-391
	Data Structure & Algorithm Lab	PCC-CS391
	Computer Organization Lab	PCC- CS392
	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC CS(AIML)393
4th semester	Design & Analysis Algorithm Lab	PCC-CS494
	Artificial Intelligence Lab	PCCAIML 491
	PYTHON II/R Programming	PCCAIML492

CSE-Internet of Things and Cyber Security including Block Chain Technology

Semester	Course Name	Subject Code
1st semester	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B) (Basic Science course)	BS-PH191/ BS-CH191
	Basic Electrical Engineering Laboratory (Engineering Science Courses)	ES-EE191
	Engineering Graphics & Design(Gr-B)/ Workshop/Manufacturing Practices(Gr-A) (Engineering Science Courses)	ES-ME191/ ES-ME192
2nd semester	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A) (Basic Science course)	BS-PH291/ BS-CH291
	Programming for Problem Solving (Engineering Science Courses)	ES-CS291
	Engineering Graphics & Design(Gr-A)/ Workshop/Manufacturing Practices(Gr-B) (Engineering Science Courses)	ES-ME291/ ES-ME292
	Language Laboratory (Humanities and Social Sciences including Management courses)	HM-HU291
3rd semester	Analog & Digital Electronics Lab	ESC-391

	Data Structure & Algorithm Lab	PCC-CS391
	Computer Organization Lab	PCC- CS392
	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC CS(AIML)393
4th semester	Data Communication and Networking Lab	PCCICB49 1
	DESIGN & ANALYSIS OF ALGORITHMS LAB [0 0 4 2]	PCCCS49 4

❖ **Computing Facilities**

- ❖ Internet Bandwidth

20 MBPS

- ❖ Number and configuration of System

Dual Core 3rd Generation

- ❖ Total number of system connected by LAN

320 Nos.

- ❖ Total number of system connected by WAN

300 Nos.

- ❖ Major software packages available

CSE : C++, Oracle, MS Office 365, Adobe Package, Java Linux

EE : ETAP16.1.1, MAT Lab, R2016A, Power World Ver,20

ME : Auto CAD, Solid Works

CE : STAAD PRO

ECE : MAT Lab, XILINX, Mentor Graphics

- ❖ Special purpose facilities available

- ❖ Innovation Cell

Technical Innovation Club (Tic-Tech-Toe)

- ❖ Social Media Cell

- ❖ Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments

Not Applicable

❖ **List of facilities available**

❖ Games and Sports Facilities

Football
Cricket
Volley Ball
Table Tennis
Badminton
Carom

❖ Extra-Curricular Activities

Yoga and Meditation

❖ Soft Skill Development Facilities

Available (in house training by corporate house and freelancer)

❖ **Teaching Learning Process**

❖ Curricula and syllabus for each of the programmes as approved by the University

❖ Academic Calendar of the University



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)
Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station - Haringhata, Pin - 741249
City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

NOTICE

No.8.26/MAKAUT/Regis./Acadm.Cel/2021

Dated: 26.8.2021

The Academic Calendar as proposed for the year 2021-2022 is being notified as follows:

Events		For Continuing Batch	For New Batch
Odd Semester 2021-22			
1	Commencement of University Registration process online for newly admitted students	N.A.	Aug 25, 2021
2	Admission activities (for ensuing new students) to be completed by	N.A.	Sept 15, 2021
3	Commencement of Academic Programme (AICTE Courses)	Aug 31, 2021	Sept 15, 2021
	Commencement of Academic Programme (Non-AICTE Courses)	Aug 31, 2021	Sept 30, 2021
4	Registration activities (for ensuing newly admitted students for the session 2020-21) will be completed by	N.A.	Oct 25, 2021
5	Enrolment of students	Sept 01-10, 2021	Oct 01-07, 2021
6 (a)	Submission of continuous evaluation (CA I)	Oct 01-04, 2021 (Except Sem I)	
6 (b)	Submission of continuous evaluation (CA II & PCA I)	Nov 01-04, 2021	
6 (c)	Submission of continuous evaluation (CA III)	Dec 01-04, 2021	
6 (d)	Submission of continuous evaluation (CA IV & PCA II)	Jan 02-05, 2022	
7	Pre Examinations Activities/ form fill-up	Jan 06-14, 2022	
8(a)	Practical Examinations, Sessionals & Viva-Voce	Jan 15-25, 2022	
8(b)	Theory Examinations	Jan 17-29, 2022	
9 (a)	Last date of submission of MAR (Phase I)	30 th Nov 2021	
9 (b)	Last date of submission of MAR (Phase II)	31 st Jan 2021	
Even Semester 2021-22			
1	Commencement of Academic Programme	February 01, 2022	
2	Enrolment of students (for each semester)	Feb 01, 2022 to Feb 10, 2022	
3 (a)	Submission of continuous evaluation (CA I)	Mar 01-04, 2022	
3 (b)	Submission of continuous evaluation (CA II & PCA I)	Apr 01-04, 2022	
3 (c)	Submission of continuous evaluation (CA III)	May 01-04, 2022	
3 (d)	Submission of continuous evaluation (CA IV & PCA II)	June 01-04, 2022	
4	Pre Examinations Activities/ form fill-up	June 05-18, 2022	
5 (a)	Practical Examinations, Sessionals & Viva-Voce	June 20-30, 2022	
5 (b)	Theory Examinations	June 20-30, 2022	

Rebin

- ❖ Academic Time Table with the name of the Faculty members handling the Course

- ❖ Teaching Load of each Faculty

- ❖ Internal Continuous Evaluation System and place

- ❖ Student's assessment of Faculty, System in place

- ❖ **For each Post Graduate Courses give the following:**
 - ❖ Title of the Course curricula and Syllabi
 - ❖ Laboratory facilities exclusive to the Post Graduate Course

- ❖ **Special Purpose**
 - ❖ Software, all design tools in case
 - ❖ Academic Calendar and frame work

17. Enrolment of students in the last 3 years

18. List of Research Projects/ Consultancy Works

- ❖ Number of Projects carried out, funding agency, Grant received
- ❖ Publications (if any) out of research in last three years out of masters projects
- ❖ Industry Linkage
- ❖ MoUs with Industries (minimum 3)

19. LoA and subsequent EoA till the current Academic Year

20. Accounted audited statement for the last three years

21. Best Practices adopted, if any

Note: Suppression and/or misrepresentation of information shall invite appropriate penal action.

The Website shall be dynamically updated with regard to Mandatory Disclosures