

**Annexure 18****Mandatory Disclosures of Dumkal Institute of Engineering & Technology, Murshidabad, W.B.**

18.1	Name of the Institution	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY
	Address	Vill+PO- Basantapur, PS- Dumkal, Dist.- Murshidabad, Pin- 742406, State- West Bengal
	Mobile No	7872377268
	E-Mail	dietnet@hotmail.com; principaldiet12@gmail.com
18.2	Name and address of the Trust/Society✓/Company and the Trustees	BASANTAPUR EDUCATION SOCIETY
	Address	Vill+PO- Basantapur, PS- Domkal, Dist.- Murshidabad, Pin- 742406, State- West Bengal
	Mobile No	7872377268
	E-Mail	b-e-s95@hotmail.com
18.3	Name and Address of the Vice Chancellor/Principal✓/Director	Prof. (Dr.) Md. Headayetullah
	Address	Vill+PO- Basantapur, PS- Dumkal, Dist.- Murshidabad, Pin- 742406, State- West Bengal
	Mobile No	7872377268
	E-Mail	principaldiet12@gmail.com
18.4	Name of the affiliating University	Maulana Abul Kalam Azad University of Technology, West Bengal (formerly known as WBUT)
18.5	Governance	

Members of the Board	Name	Designation	Position held in BoG
	1. Dr Nazrul Islam	Chairman, Basantapur Education Society (BES)	Chairman
	2. Sariful Islam Biswas	Secretary, BES	Member
	3. Najimuddin Shaikh	Member, BES	Member
	4. Dr Kumud Gupta	Professor, EC	Member
	5. Md Faisal Kabir	Principal, Dumkal Polytechnic	Member
	6. Mr Suman Pal	Assistant Professor, DIET	Member
	7. Mr. Arnab Bera	Assistant Professor, DIET	Member
	8. Dr Abhijit Biswas	Nominee, Govt. of West Bengal, (Ex Officio)	Member
	9. Mr Mihir Sing	Nominee, MAKAUT	Member
	10. ERO, AICTE	ERO, AICTE (Ex Officio)	Member
	11. DTE, West Bengal	Nominee of the State Government (Ex Officio)	Member
	12. Prof. (Dr.) Md. Headayetullah	Principal, DIET	Member Secretary

Academic Advisory Body	<ol style="list-style-type: none"> <li>1. Prof. (Dr.) Md. Headayetullah, Principal</li> <li>2. Arnab Bera, Academic Convener</li> <li>3. Suman Pal, HOD, CSE</li> <li>4. Taniya Sahana, Asst. Prof., CSE</li> <li>5. Baibhav Roy, HOD, CE</li> <li>6. Bithun Sarkar, HOD, ME</li> <li>7. Debasish Sarkar, Asst. HOD, ME</li> <li>8. Tanmoy Dutta, HOD, EE</li> <li>9. Md. Kamiul Hoque, Asst. Prof, EE</li> <li>10. Samiran Sarkar, HOD, ECE, MTech Coordinator</li> </ol>
Frequency of the Board Meeting and Academy	Board Meeting- Quarterly  Academic Meeting- Weekly
Organizational Chart	<pre> graph TD     A[Basantapur Education Society (Chairman)] --&gt; B[Board of Governance, Chairman]     B --&gt; C[Dumkal Institute of Engineering and Technology, Principal]     C --&gt; D[Administrative Section]     C --&gt; E[Academic Section]     C --&gt; F[Examination Section]     D --&gt; G[Registrar]     G --&gt; H[T&amp;P Officer]     H --&gt; I[Finance Officer]     I --&gt; J[Accountant]     J --&gt; K[Office Superintendent]     K --&gt; L[Librarian]     L --&gt; M[Other Staff]     E --&gt; N[HoD's Of Different Departments]     N --&gt; O[Prof./Asso.Prof./Asst. Prof. Of Different Departments]     O --&gt; P[Technical Assistant of Different Departments]     F --&gt; Q[OIC of Examination] </pre>

Nature and Extent of Involvement of Faculty and students in academic affairs/improvements	Faculty members take regular classes as per syllabus and help students in different extra-curricular activities to enrich their knowledge.  Students also organize different seminar, quiz etc.																																																																											
Mechanism/Norms and Procedure for democratic/ good Governance	A well organizational structure is maintained for good governance where principal is the key person.																																																																											
Student Feedback on Institutional Governance/Faculty performance	Students have free access to the Principal, Registrar and the HODs. They can share their views in any matter to the higher management easily.																																																																											
Grievance Redressal Mechanism for faculty, staff and students	College maintains a grievance drop box. Competent committee like Anti Ragging Committee, Anti Ragging Squad and several students' sub-committees take appropriate timely action.																																																																											
Anti Ragging Committee	<p>Establishment of Anti Ragging Committee (As per All India Council for Technical Education notified Regulation for prevention and prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/ Legal/ AICTE/ 2009 dated 01.07.2009)</p> <p><b><u>Members of the Anti Ragging Committee (Institute Level)</u></b></p> <table><tr><th>Sl No</th><th>Name</th><th>Designation &amp; Department</th></tr><tr><td>1</td><td>Prof. (Dr.) Md. Headayetullah</td><td>Principal (Chairperson)</td></tr><tr><td>2</td><td>Arnab Bera</td><td>Academic Convener (Vice Chairperson)</td></tr><tr><td>3</td><td>Sub-Divisional Police Officer</td><td>Dumkal, Murshidabad</td></tr><tr><td>4</td><td>Inspector in Charge</td><td>Dumkal, Murshidabad</td></tr><tr><td>5</td><td>Liakat Hossain</td><td>Notary Public, Dumkal, Murshidabad</td></tr><tr><td>6</td><td>Suman Pal</td><td>TPO</td></tr><tr><td>7</td><td>Faruk Aktar Saikh</td><td>Asst. Prof., ME</td></tr><tr><td>8</td><td>Baibhav Roy</td><td>HOD, CE</td></tr><tr><td>9</td><td>Samiran Sarkar</td><td>HOD, ECE</td></tr><tr><td>10</td><td>Taniya Sahana</td><td>Asst. HOD, CSE</td></tr><tr><td>11</td><td>Bithun Sarkar</td><td>HOD-in-charge, ME</td></tr><tr><td>12</td><td>Md Alamin Hossain</td><td>Asst. Prof., ECE</td></tr><tr><td>13</td><td>Shain Kader</td><td>Asst. Prof., CE</td></tr><tr><td>14</td><td>Md. Kamiul Hoque</td><td>Asst. Prof, EE</td></tr><tr><td>15</td><td>Saik Md Mahatabuddin</td><td>Superintendent Boys' Hostel</td></tr><tr><td>16</td><td>Nilima Pandey</td><td>Superintendent Girls' Hostel</td></tr><tr><td>17</td><td>Sahabur Ali</td><td>Guardian of student</td></tr><tr><td>18</td><td>Manirul Islam</td><td>Non-Teaching Staff</td></tr><tr><td>19</td><td>Jharna Biswas</td><td>Non-Teaching Staff</td></tr><tr><td>20</td><td>Asraful Islam</td><td>O.S.</td></tr><tr><td>21</td><td>Sainul Islam</td><td>Member</td></tr><tr><td>22</td><td>Minnaj Ali</td><td>Guardian of student</td></tr><tr><td>23</td><td>Md Golam Murtaja</td><td>Security in charge, Boy's Hostel</td></tr><tr><td>24</td><td>Aftabuddin Sk</td><td>Asst. Superintendent, Boy's Hostel</td></tr></table>	Sl No	Name	Designation & Department	1	Prof. (Dr.) Md. Headayetullah	Principal (Chairperson)	2	Arnab Bera	Academic Convener (Vice Chairperson)	3	Sub-Divisional Police Officer	Dumkal, Murshidabad	4	Inspector in Charge	Dumkal, Murshidabad	5	Liakat Hossain	Notary Public, Dumkal, Murshidabad	6	Suman Pal	TPO	7	Faruk Aktar Saikh	Asst. Prof., ME	8	Baibhav Roy	HOD, CE	9	Samiran Sarkar	HOD, ECE	10	Taniya Sahana	Asst. HOD, CSE	11	Bithun Sarkar	HOD-in-charge, ME	12	Md Alamin Hossain	Asst. Prof., ECE	13	Shain Kader	Asst. Prof., CE	14	Md. Kamiul Hoque	Asst. Prof, EE	15	Saik Md Mahatabuddin	Superintendent Boys' Hostel	16	Nilima Pandey	Superintendent Girls' Hostel	17	Sahabur Ali	Guardian of student	18	Manirul Islam	Non-Teaching Staff	19	Jharna Biswas	Non-Teaching Staff	20	Asraful Islam	O.S.	21	Sainul Islam	Member	22	Minnaj Ali	Guardian of student	23	Md Golam Murtaja	Security in charge, Boy's Hostel	24	Aftabuddin Sk	Asst. Superintendent, Boy's Hostel
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Establishment of online Grievance Redressal Mechanism	Online Grievance Redressal included in our official website.																																																																											

Grievance Redressal Committee	Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University. (As per All India Council for Technical Education (Redressal of Grievance of Students) Regulations, 2019 vide F.No. 1-101/PGRC/AICTE /Regulation/2019 dated 07.11.2019)		
	<b>Members of the Grievance Redressal Committee (Institute Level)</b>		
	Sl No	Name	Designation & Department
	1	Prof. (Dr.) Md. Headayetullah	Principal (President)
	2	Samiran Sarkar	Asst. Prof., ECE, Convener
	3	Prof. Sukhendu Samajdar	Director, School of Applied Science and Technology (Nominee from MAKAUT)
	4	Md Alamin Hossain	Asst. Prof., ECE, Member
	5	Faruk Aktar Saikh	Asst. Prof., ME, Member
	6	Suman Pal	TPO, Member
	7	Shain Kader	Asst. Prof. CE
	8	Arnab Bera	Asst. Prof., English, Member
	9	Sarifun Khatun	Asst. Prof., Chemistry, Member
	10	Baibhav Roy	HOD, CE
	11	Md. Kamiul Hoque	Asst. Prof, EE
Internal Committee	Establishment of Internal Committee (IC) (As per Section 4 All India Council for Technical Education (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutes) Regulations, 2016.		
	<b>Members of the Task Force to Prevent Women sexual harassment at work place (Institute Level)</b>		
	Sl No	Name	Designation & Department
	1	Sarifun Khatun	Asst. Prof., Basic Science, Chairperson
	2	Suman Pal	HOD, CSE, Member
	3	Taniya Sahana	Asst. Prof., CSE, Member
	4	Bithun Sarkar	HOD, ME, Member
	5	Samiran Sarkar	HOD, ECE, Member
	6	Arnab Bera	Asst. Prof. Member
	7	Jharna Biswas	Non-Teaching staff, Member
	8	Debarati Sarkar	Student 4 <sup>th</sup> year, Member
	9	Dilruba Khatun	Student 3 <sup>rd</sup> year, Member
	10	Taahamina Khatun	Student 2 <sup>nd</sup> year, Member
	11	Muskan Khatun	Student 2 <sup>nd</sup> year, Member
	12	Sonia Parvin	Student 1 <sup>st</sup> year, Member
	13	Pallabi Biswas	Asst Prof, CE, Member Secretary
	14	Asraful Islam	O.S.



SC/ST Committee	<p>The SC/ST Committee of Dumkal Institute of Engineering &amp; Technology is formed as here under the Scheduled Castes &amp; the Scheduled Tribes (Prevention of Atrocities) Act, 1989, No. 33 OF 1989, dated 11.09.1989.</p> <p><b>Members of SC/ST Committee (Institution level)</b></p> <table><tr><th>Sl No</th><th>Name</th><th colspan="2">Designation &amp; Department</th></tr><tr><td>1</td><td>Prof. (Dr.) Md. Headayetullah</td><td colspan="2">Principal, Chairperson</td></tr><tr><td>2</td><td>Samiran Sarkar</td><td colspan="2">Vice Chairperson</td></tr><tr><td>3</td><td>Kapil Dev Das</td><td colspan="2">Asst. Prof. Dept. of CSE, Member</td></tr><tr><td>4</td><td>Anupam Roy</td><td colspan="2">Asst. Prof. Dept. of CSE, Member</td></tr><tr><td>5</td><td>Debasis Das</td><td colspan="2">1<sup>st</sup> year student, Dept of CSE, member</td></tr><tr><td>6</td><td>Ankit Pramanik</td><td colspan="2">2<sup>nd</sup> year student, Dept. of CSE Member</td></tr><tr><td>7</td><td>Bikaram Das</td><td colspan="2">3<sup>rd</sup> year, student, Dept. of CSE, Member</td></tr><tr><td>8</td><td>Shibaditya Das</td><td colspan="2">4<sup>th</sup> year student, Dept. of EE, Member</td></tr></table>			Sl No	Name	Designation & Department		1	Prof. (Dr.) Md. Headayetullah	Principal, Chairperson		2	Samiran Sarkar	Vice Chairperson		3	Kapil Dev Das	Asst. Prof. Dept. of CSE, Member		4	Anupam Roy	Asst. Prof. Dept. of CSE, Member		5	Debasis Das	1 <sup>st</sup> year student, Dept of CSE, member		6	Ankit Pramanik	2 <sup>nd</sup> year student, Dept. of CSE Member		7	Bikaram Das	3 <sup>rd</sup> year, student, Dept. of CSE, Member		8	Shibaditya Das	4 <sup>th</sup> year student, Dept. of EE, Member									
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6	Ankit Pramanik	2 <sup>nd</sup> year student, Dept. of CSE Member																																													
7	Bikaram Das	3 <sup>rd</sup> year, student, Dept. of CSE, Member																																													
8	Shibaditya Das	4 <sup>th</sup> year student, Dept. of EE, Member																																													
Internal Quality Assurance Cell	<p><b><u>Internal Quality Assurance Cell (IQAC)</u></b></p> <p>The Internal Quality Assurance Cell of Dumkal Institute of Engineering &amp; Technology has been formed with the following members as per Appendix 6 of the AICTE, approval process Handbook 2021-2022.</p> <p><b>Members of the IQAC, DIET</b></p> <table><tr><th>Sl No</th><th>Member Name</th><th>Position hold in this Committee</th><th>Email Id</th></tr><tr><td>1</td><td>Prof. (Dr.) Md. Headayetullah Principal, DIET</td><td>Chairperson</td><td>directordiet1@gmail.com dietnet@hotmail.com</td></tr><tr><td>2</td><td>Md. Kamiul Hoque</td><td>Member</td><td>kamiul.pgec@gmail.com</td></tr><tr><td>3</td><td>Faruk Aktar Saikh, AP, DIET</td><td>Member</td><td>frkmrn@gmail.com</td></tr><tr><td>4</td><td>Baibhav Roy, AP, DIET</td><td>Member</td><td>tanoy.1989@gmail.com</td></tr><tr><td>5</td><td>Samiran Sarkar, AP, DIET</td><td>Member</td><td>samiran25@gmail.com</td></tr><tr><td>6</td><td>Md Alamin Hossain, AP, DIET</td><td>Member</td><td>mdalaminhossain6@gmail.com</td></tr><tr><td>7</td><td>Suman Pal, AP, DIET</td><td>Senior Administrative Official Member</td><td>mr.sumanpal@gmail.com</td></tr><tr><td>8</td><td>Indranil De Sarkar, MD, Ardent Computech Pvt. Ltd.</td><td>External expert Industry</td><td>indranil@ardentcollaborations.com</td></tr><tr><td>9</td><td>Mr. Monojit Chakraborty, MD, High-Tech next Engineering &amp; Telecom Pvt. Ltd.</td><td>External expert Industry</td><td>support@high-technext.com</td></tr><tr><td>10</td><td>Arnab Bera, AP, DIET</td><td>Member Secretary</td><td>arnab02.bera@gmail.com</td></tr></table>			Sl No	Member Name	Position hold in this Committee	Email Id	1	Prof. (Dr.) Md. Headayetullah Principal, DIET	Chairperson	directordiet1@gmail.com dietnet@hotmail.com	2	Md. Kamiul Hoque	Member	kamiul.pgec@gmail.com	3	Faruk Aktar Saikh, AP, DIET	Member	frkmrn@gmail.com	4	Baibhav Roy, AP, DIET	Member	tanoy.1989@gmail.com	5	Samiran Sarkar, AP, DIET	Member	samiran25@gmail.com	6	Md Alamin Hossain, AP, DIET	Member	mdalaminhossain6@gmail.com	7	Suman Pal, AP, DIET	Senior Administrative Official Member	mr.sumanpal@gmail.com	8	Indranil De Sarkar, MD, Ardent Computech Pvt. Ltd.	External expert Industry	indranil@ardentcollaborations.com	9	Mr. Monojit Chakraborty, MD, High-Tech next Engineering & Telecom Pvt. Ltd.	External expert Industry	support@high-technext.com	10	Arnab Bera, AP, DIET	Member Secretary	arnab02.bera@gmail.com
Sl No	Member Name	Position hold in this Committee	Email Id																																												
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4	Baibhav Roy, AP, DIET	Member	tanoy.1989@gmail.com																																												
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10	Arnab Bera, AP, DIET	Member Secretary	arnab02.bera@gmail.com																																												

Equal Opportunity Cell	<p>Dumkal Institute of Engineering &amp; Technology (DIET), with a view to ascertain equality among the students and employees has set up Equal Opportunity Cell. This Cell works to ensure equality of opportunity irrespective of cast, creed and sex.</p> <p>Members of Equal Opportunity Cell (Institution level)</p> <p>1) Prof. (Dr.) Md. Headayetullah (Chairperson)</p> <p>2) Samiran Sarkar (Vice Chairperson)</p> <p>3) Kapil Dev Das (Assistant Professor, CSE, Member)</p> <p>4) Anupam Roy (Assistant Professor, CSE, Member)</p> <p>5) Shibaditya Das, (Student 4<sup>th</sup> year Member)</p> <p>6) Debarati Sarkar (Student 4<sup>th</sup> year Member)</p>
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18.6	Programmes										
Name of Programmes approved by AICTE		B.Tech- Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Science & Engineering and Electronics & Communication Engineering. M.Tech- Electronics & Communication Engineering.									
Total No of Course		B. Tech- 05 M Tech- 01									
No of Courses for which applied for accreditation		B. Tech- 05 M Tech- 01  Total 06									
Programme Details given below:											
Sl No	Programme Name	No of Seat	Duration (Year)	Cut of Marks		Fees		Placement Facilities			
1.	B.Tech-CSE	60	4	As per University Norms (P+C+M= 45% or above)		1,40,000.00		Available			
2.	B.Tech- EE	60	4			1,70,000.00		Available			
3.	B.Tech-ECE	60	4			1,40,000.00		Available			
4.	B.Tech-CE	60	4			1,70,000.00		Available			
5.	B.Tech-ME	60	4			1,70,000.00		Available			
6.	M.Tech-ECE	18	2			1,40,000.00		Available			
Student placed											
2019		2020		2021		2022		2023		2024	
CSE	08	CSE	06	CSE	03	CSE	05	CSE	07	CSE	11
ECE	03	ECE	00	ECE	00	ECE	00	ECE	03	EE	20
AEIE	01	EE	12	EE	09	EE	08	EE	07	ME	22
EE	10	ME	09	ME	08	ME	06	ME	07	CE	5
ME	14	CE	11	CE	07	CE	08	CE	03		
CE	12										
Salary Package	2021			2022			2023			2024	
	Min	Max		Min	Max		Min	Max		Min	Max
CSE	1.2 lac/annum	3.5 lac/annum		1 lac/annum	2.4 lac/annum		2.4 lac/annum	5 lac/annum		2.4 lac/annum	5 lac/annum
ECE	1.2 lac/annum	3.5 lac/annum		Na	Na		2.4 lac/annum	4.25 lac/annum		Na	
EE	1.2 lac/annum	2.4 lac/annum		1.2 lac/annum	2.4 lac/annum		2.4 lac/annum	4.25 lac/annum		2.4 lac/annum	4.25 lac/annum
ME	1.2 lac/annum	1.8 lac/annum		1.2 lac/annum	2.4 lac/annum		1.44 lac/annum	2.4 lac/annum		1.44 lac/annum	2.4 lac/annum
CE	1.44 lac/annum	1.8 lac/annum		1.44 lac/annum	1.8 lac/annum		3.4 lac/annum	5 lac/annum		3.4 lac/annum	5 lac/annum

18.7	Faculty details			
	Course/Branch	Permanent Faculty	Adjunct Faculty	Faculty : Student Ratio
	CSE	09		1:20
	EE	9		1:20
	ME	12		1:20
	CE	11		1:20
	ECE	11		1:20
	M.Tech-ECE	03		1:15

8	Faculty Details
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#### Computer Science & Engineering Department

Sl No	Name	Qualification M.Sc/ B Tech/M Tech/PhD (UG & PG-Both)	Experience (Years)
01	Jahiruddin Ahamed	UG & PG	15.5
02	Asif Ikbal Mondal	UG & PG	9.1
03	Anupom Roy	UG & PG	16.5
04	Kapil Dev Das	UG & PG	16.11
05	Taniya Sahana	UG & PG	12.1
06	Suman Pal	UG & PG	12.1
07	Ataul Hoque Mandal	UG & PG	13.1
08	Faijal Bin Ahamed	UG & PG	8.11
09	Mohit Kumar Halder	UG & PG	6.9

#### Electronics & Communication Engineering

Sl No	Name	Qualification MSc/ B Tech/M Tech/PhD (UG & PG-Both)	Experience (Years)
1	Samiran Sarkar	UG & PG	16.5
2	Atanu Sen	UG & PG	15.5
3	Md. Taslim Haidar	UG & PG	15.5
4	Mohammad Al Amin Hossain	UG & PG	3.11
5	Hasanuzzaman Hasan	UG & PG	15
6	Ram Yadav	UG & PG	7.11
7	Juthika Parvin	UG & PG	3.11
8	Priyanka Bakundi	UG & PG	3.11
9	Afjal Hossain	UG & PG	1.10
10	Sofikul Islam Sarkar	UG & PG	1.10
11	Mohammad Shahidullah	UG, PG	1.10

12	Anisur Rahaman	UG, PG	1.10
13	Maidul Islam	UG, PG	1.10
14	Zeeshan Kabir	UG & PG	1

#### Mechanical Engineering

Sl No	Name	Qualification MSc/ B Tech/M Tech/PhD (UG & PG-Both)	Experience (Years)
1	Bithun Sarkar	UG & PG	9.5
2	Debasish Sarkar	UG & PG	8.11
3	Faruk Saikh	UG & PG	3.11
4	Rofikul Islam	UG & PG	3.11
5	Manjur Aktar	UG & PG	1.10
6	Anirban Hazra	UG & PG	2.10
7	Sudipta Biswas	UG & PG	2.11
8	Someshwar Chowdhury	UG & PG	10.3
9	Sujan Ansary	UG & PG	1.10
10	Samsul Alam Sekh	UG & PG	1.10
11	Hasanuzzaman Shaikh	UG & PG	2.11
12	Mahammad Mominul Islam	UG & PG	2.10

#### Electrical Engineering

Sl No	Name	Qualification MSc/ B Tech/M Tech/PhD (UG & PG-Both)	Experience (Years)
1	Tanmoy Dutta	UG & PG	3.11
2	Md Kaniul Hoque	UG & PG	1
3	Nesar Hossain	UG & PG	1
4	Rajat Kumar Ranu	UG & PG	1
5	Jhuma Mandal	UG & PG	9
6	Imam Mehemud Hasan	UG & PG	2.9
7	Mohammad Faruki Abedin	UG & PG	1.10
8	Dr Imon Kalyan	UG & PG& PhD	
9	Kazi Sabana Pervin	UG & PG	1.10

## Civil Engineering

Sl No	Name	Qualification MSc/ B Tech/M Tech/PhD (UG & PG-Both)	Experience (Years)
1	Baibhav Roy	UG & PG	10.7
2	Shain Kader	UG & PG	4.3
3	Amit Kumar Halder	UG & PG	4.2
4	Rayhan Rafsan Ali	UG & PG	1.10
5	Sahinur Mondal	UG & PG	2.10
6	Pallabi Biswas	UG & PG	3
7	Isanur Ali Mondal	UG & PG	1.9
8	Sarifun Khatun	UG & PG	2.10
9	Arnab Bera	UG & PG	14
10	Md Kamruzzaman	UG & PG	1.10
11	Mahmooda Khatun	UG & PG	4.7

18.8	Profile of Director/Principal					
Name		DOB	Qualification	Experience	PhD	Area of Specialization
Prof. (Dr.) Md. Headayetullah			UG, PG & PhD	11 years	Completed	IOT

18.9	Fee	
	B.Tech-1 <sup>st</sup> year entry	1,40,000.00 (For CSE,ECE) 1,70,000(For ME,EE,CE)
	B.Tech- Lateral Entry	1,40,000.00 (For CSE,ECE) 1,70,000(For ME,EE,CE)
	M.Tech -ECE	1,40,000.00
	Schedule for fee payment	Semester wise
	No of TFW	na
	Total amount waived	na
	Name of the students	na
	Number of scholarship offered by Institution	na
	Criteria for fee waivers	As per State Government rule

18.10	Admission			
	Year of Approval	2024-2025		
	Total Number of seats	318		
	Number of students admitted branch wise	2022-2023	2023-2024	2024-2025
	B.Tech-CSE	18	21	27
	B.Tech-ECE	00	00	00
	B.Tech-CE	18	04	09
	B.Tech-ME	18	04	03
	B.Tech-EE	19	06	05
	M.Tech-ECE	04	02	08

18.11	Admission Procedure	
	Admission Test	1. West Bengal Joint Entrance Examination (WBJEE). Test agency: West Bengal Joint Entrance Examinations Board Website: www.wbjeeb.nic.in 2. JEE Main Test agency: National Testing Agency Website: www.jeemain.nta.nic.in
	Number of seats allotted	1. WBJEE-270 nos students 2. JEE main- 30 nos students

18.12	Admission Criteria	
	The students who have passed Higher Secondary (10+2) Examination of the West Bengal Council of Higher Secondary Education or any equivalent examination of any recognized Central/State Board/University have minimum aggregate (Physics + Chemistry + Mathematics - 45%) marks as per the directive the State Government issued from time to time have to qualify any of the following admission test with a valid rank.	

18.13	List of Applicants	
	na	

18.14	Results of Admission Under Management seats/Vacant seats	
	na	

18.15	Information of Infrastructure and Other Resources Available		
	Number of Class Rooms and Size	24	101 sqm (each) approx
	Number of Tutorial Room and Size	07	38 sqm (each) approx
	Number of Laboratories and size	40	105 sqm (each) approx.
	Number of Drawing Halls and Capacity	01	60 Nos.
	Number of Computer centre and capacity	01	30 Nos
	Examination Control cell and capacity	01	30 sqm
	Online examination facility	Yes	
	Occupancy Certificate	Yes	
	Fire and Safety Certificate	Yes	
	Hostel Facility	Yes	Boys- 04 numbers Girls- 01 number

	Library		
	Number of Books Titles/Journals Available	Titles: a. CSE- 601 b. IT - 557 c. ECE- 603 d. EIE - 529 e. EE - 593 f. ME - 485	

	g. CE - 462 h. Physics- 167 i. Chemistry- 155 j. Mathematics- 368 k. Management- 219 l. Humanities- 71 m. E-Library- 284  <hr/> 5094  Volumes:  a. CSE- 3489 b. IT - 3102 c. ECE- 3424 d. EIE - 3180 e. EE - 3281 f. ME - 2261 g. CE - 2106 h. Physics- 633 i. Chemistry- 611 j. Mathematics- 1787 k. Management- 1075 l. Humanities- 311 m. E-library- 284  <hr/> 25544
List of online National/International journals subscribed	47
E Library facility	Yes
National Digital Library subscription	Yes

Laboratory and workshop
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### Electronics & Communication Engineering

Sl No	LAB NAME	EQUIPMENTS	FUNCTION
1	DSP	DSP KIT, COMPUTER	PROGRAMS ON MATLAB
2	COMMUNICATION	COMMUNICATION KIT, CRO, FUNCTION GENERATOR	EXPERIMENTS ON COMMUNICATION
3	ANALOG ELECTRONICS	CRO, FUNCTION GENERATOR, AMPLIFIER KIT, DISCRETE COMPONENTS	EXPERIMENTS ON AMPLIFIER, CUT OFF FREQUENCY ETC
4	MICROWAVE AND TRANSMISSION LINES	MICROWAVE TEST BENCH	EXPERIMENTS ON ANTENNA AND MICROWAVE ENGG

5	SIGNALS AND SYSTEMS	COMPUTER	MATLAB PROGRAMMING
6	CONTROL SYSTEMS	COMPUTER	MATLAB PROGRAMMING
7	ADVANCED COMMUNICATION	KIT, PC	SATELLITE UP LINK DOWN LINK GSM ETC
9	BASIC ELECTRONICS	DISCRETE COMPONENTS	EXPERIMENTS ON DIODE TRANSISTORS ETC
10	DIGITAL ELECTRONICS	DISCRETE COMPONENTS AND KIT	EXPERIMENTS ON LOGIC GATES DIGITAL ICs
11	MICROPROCESSOR	8085 KIT	PROGRAMS ON 8085 MICROPROCESSOR
12	VLSI Design Lab	a. Computer b. FPGA Trainer Kit	Simulation & Programming

#### PG- ECE

Sl No	Lab Name	Equipment	Experiment name
1	Advanced Communication lab	OFC GPS QPSK Satellite GSM	OFC /measurement of NA GPS Trainer kit QPSK Modulation/Demodulation Satellite Communication/ uplink/downlink GSM Trainer kit
2	Communication System Lab	FSK PSK PCM	FSK PSK PCM
3	Design & Simulation Lab	Computer Software /	Mat lab / Simulink Xilinx ISE/system generator

#### Electrical Engineering

Basic Electrical Engineering Lab	
(ES EE-191)	
SL NO	Experiment kit / Set up Details
1	Kit for Verification of Superposition Theorem
2	Kit for experiment on Thevenins Theorem
3	Kit for experiment on Norton Theorem
5	Charactristics for determination tungsten and carbon filament lamp Panel Board
6	Training panel to determination of Ammeter calibration



7	Kit for experiment on determination of the characteristics of R L C Series Circuit
8	Trainer setup of the calibration of WATTMETER
9	Trainer panel to determine the characteristics of a fluroscent lamp
10	Setup for experiment on Calibration of a AC energy meter
11	Trainer setup for starting and reversing speed of DC Shunt motor
12	Experimental setup for measurement of armature and field resistance of a DC motor
13	Trainer setup for experiment on Open circuit & short circuit test of a single phase transformer
14	Experimental setup for measurement of power in 3 phase circuit by 2 wattmeter method
15	Setup for 3 phase power measurement and starting of 3-phase Induction motor by TOL & Star-Delta starter

<b>Circuit Theory Lab</b>	
<b>EE 391</b>	
Sl No.	Experiment setup Hardware details
1	Experiment on Passive filter (Low Pass,High Pass, Band Pass, Band Reject)
	a) Electronics Training Board on Passive Filters
	b) CRO 20MHz Quantity: 04 (APLAB, YOKOGAWA)
	c) Function Generator 3 MHz, 230V AC 15VA, Quantity: 05 (APLAB)
2	Two Port Network set (Z & Y Parameter)
	a) DC Power Supply 0-30V, Quantity: 05 ( DD Gen & Elec. Metravi)
	b) Ammeter (0-0.5A )
	c) Voltmeter (0-230V)
	d) Digital Multimeter (Quantity: 06)
3	Transient Response of R L C Circuit Kit, 230V Quantity: 01 (Synchro Electronics)

<b>Electrical Measurement Laboratory</b>	
<b>(EE 492)</b>	
Sl No	Experimental setup detail
1	Kelvin Double Bridge
2	Anderson Bridge
3	De Sauty's Bridge
5	Wein Bridge
6	Schering bridge
7	Instrument Transformer (PT & CT)
8	Measurement of 3 phase power using 2 wattmeter

<b>Electrical Machine Lab (EE 491 &amp; EE 591)</b>	
<b>Setup No.</b>	<b>Training panel Name</b>
1	Motor & Generator panel board (DC Shunt motor and generator)
2	Three phase induction motor panel board for no load and blocked rotor test
3	Panel board for the study of the characteristics of DC Compound generator
4	Panel for the study of the performance of SCIM and determination of iron loss, F & W loss
5	Panel for the study of the characteristics of the DC Shunt motor
6	Panel for the measurement of the speed of DC Series motor as function load torque
7	Panel for the study of the performance of WRIM
8	Panel for different connection of three phase transformer
9	Panel for polarity test of a single phase transformer
10	Panel for speed control of DC Shunt motor
11	Panel for speed control for three phase SCIM by different method and their comparison
12	Panel for different method of starting of three phase SCIM and their comparison
13	Panel for the determination of regulation of an alternator by synchronous impedance method
14	Panel for determination of magnetization curve of an alternator
15	Panel for to take connection diagram of full pitch and fractional slot winding of an 18 slot SCIM for a 6 pole and 4 pole operations
16	Panel for Load test on 1 phase induction motor and deriving its performance characteristics
17	Panel for study of various connections of 6 coil alternator and its operation on no load
18	Panel for Determine the $X_d$ and $X_q$ of a salient pole synchronous machine
19	Panel for load test on a WRIL and deriving its performance characteristics
20	Panel for determination of equivalent circuit parameters of single phase induction motor.

<b>Power System Lab (EE 592 &amp; EE 692)</b>	
<b>Sl. No</b>	<b>SETUP/ EXPERIMENT DETAILS</b>
1	Study of Different Types of Insulator
2	Different Parameter Calculation of Transmission By Power Circle Diagram
3	DC Distribution System Trainer with Network Analyser
4	Determination of Generalised Constant A,B , C, D of a long Transmission line
5	Determination of Break Down Strength of Solid insulating material
6	Dielectric Strength Test of Insulating oil
7	Active & Reactive Power Control of an Alternator
8	Measurement of Earth resistance

9	Study of the characteristics of over current relay
10	Study of the characteristics of earth fault relay
11	ON Load and OFF Load Time Delay Relay
12	Set up for Transformer Protection Relay
13	Polarity, ratio and magnetic test of CT and PT
14	Study of the characteristics of under voltage relay
15	Protection scheme of three phase IM motor using Micom Relay.

<b>Power Electronics &amp; Drives Lab</b> <b>(EE693 &amp; EE791)</b>	
Sl No	Experimental Trainer kit / Setup Hardware
1	Trainer kit for study of VI characteristics of SCR
2	Trainer kit for studying of different triggering circuit of SCR
3	Trainer kit for study of single phase full controlled converter
4	Trainer kit for study of single phase half controlled symmetrical & asymmetrical converter
5	Trainer kit for study of 3phase controlled converter
6	Trainer kit for study of chopper controlled DC motor drive
7	Trainer kit for study of dual converter
8	Trainer kit for study of PWM controlled sine inverter
9	Trainer kit for study of triggering circuit of half & full controlled bridge
10	Trainer kit for study of cycloconverter
11	Trainer kit for study of step up & step down chopper
12	Set up for Study of AC 1 phase motor speed control using triac
13	Set up for Study of SCR controlled for separately controlled DC motor
14	Set up for Study of chopper fed separately excited DC motor drive

<b>Control System Laboratory</b> <b>PC-EE-503</b>	
Sl No	Experimental setup name
1	MAT-Lab control system tool box, MAT-Lab- simulink tool box.
2	Determination of Step response for first order & Second order system with unity feedback with the help of MATLAB & calculation of control system specification , Time constant, % peak overshoot, settling time etc. from the response.
3	Simulation of Step response & Impulse response for type-0, type-1 & Type-2 system with unity feedback using MATLAB.
4	Determination of Root locus, Bode plot, Nyquist plot using MATLAB control system tool box for a given system & stability by determining control system specification from the plot.
5	Determination of PI, PD and PID controller action of first order simulated process using MATLAB..
6	Determination of approximate transfer functions experimentally from Bode plot using MATLAB..
7	Evaluation of steady state error, setting time, percentage peak overshoot, gain margin, phase margin with addition of Lead, Lag, Lead-lag compensator using MATLAB.

8	Study of a practical position control system obtaining closed step responses for gain setting corresponding to over-damped and under-damped responses using MATLAB.
9	Determination of rise time and peak time using individualized components using MATLAB simulation.
10	Determination of un-damped natural frequency and damping ratio from experimental data using MATLAB.
11	Analysis of performance of Lead, Lag and Lead-Lag compensation circuits for a given system using MATLAB simulation.
12	Determination of Transfer Function of a given system from State Variable model and vice versa using MATLAB.
13	Analysis of performance of a physical system using State variable technique using MATLAB simulation.
14	Study of step response and initial condition response for a single input, two-output system in SV form by using MATLAB simulation.

### Physics laboratory

Experiment name	Apparatus
1. Determination of $e/m$ by J.J. Thomson's method	Two bar magnets ,cathode ray tube etc moment of inertia , slide calipers,screwgauge, stop watch
2. To determine the modulus of rigidity by dynamic method	Red filter, Yellow filter, Violet filter ,Photo cell
3. Determination of Planck's constant using photo cell	Stefans contant apparatus with EZ-81 diode valve
4. Determination of Stefan's constant	optical bench, laser source, difration grating
5. To determine the uwavelength of given unknown lines by laser diffraction method.	gauss meter, mV meter,semicodutor etc.
6. Determination of Hall coefficient of semiconductor	semiconductor, thermometer, power supply , coil .
7. Determination of band gap of semiconductor	Newton 's ring set up , sodium vapour lamp.
8. To determine of wavelength of Na light by forming Newtons rings.	Carey foster bridge , resistance, power supply gavonometer etc.
9. To find out unknown resistance & resistivity by Carry foster method .	bar, weight, travelling microscope, pin hanger screwgauge , slide calipers.
10. To determine Young modulus by flexure method.	U tube , water, scale, stop watch etc.
11. To find out coefficient of viscosity by poiseulle method	thermocouple kit Cu-Cns , power supply , thermometer, heater.
12. Deter mine of thermo electric power of certain temperature	

## Mechanical Engineering

### Mechanical Engineering Laboratory Experiments Detailed List

<u>Sl. No</u>	<u>Name of the Laboratory</u>	<u>Name of Lab (as per new syllabus)</u>	<u>Experiment Title</u>
1	Workshop I & II	Workshop/ Manufacturing Practices (ES-ME192/ ES-ME 292)	1. Manufacturing Methods- casting, forming, machining, joining, advanced manufacturing methods 2. CNC machining, Additive manufacturing 3. Fitting operations & power tools 4. Electrical & Electronics 5. Carpentry 6. Plastic moulding, glass cutting 7. Metal casting 8. Welding (arc welding & gas welding), brazing
2		Practice of Manufacturing Processes (PC-ME391)	1. Machine Shop: Taper turning, drilling, boring, shaping and milling operations 2. Pattern Making: 1 or 2 wooden patterns to make 3. Moulding 4. Smithy Shop 5. Welding Shop: Practicing SMAW, Gas Welding and/or GMAW 6. Fitting Shop 7. Sheet Metal Shop

3	Engineering Drawing & Computer Graphics Laboratory	Engineering Graphics & Design (ES-ME191/ ES-ME 291)	<ol style="list-style-type: none"> <li>1. Introduction to engineering drawing</li> <li>2. Lettering, dimensioning, scales</li> <li>3. Geometrical construction and curves</li> <li>4. Projection of points, lines, surfaces</li> <li>5. Projection of regular solids</li> <li>6. Combination of regular solids, floor plans</li> <li>7. Isometric projections</li> <li>8. Sections and sectional views of right angular solids</li> <li>9. Overview of computer graphics, customization&amp; cad drawing</li> <li>10. Annotations, layering &amp; other functions</li> <li>11. Demonstration of a simple team design project.</li> </ol>
4		Machine Drawing I (PC-ME492)	<ol style="list-style-type: none"> <li>1. Schematic product symbols for standard components in mechanical, electrical and electronic systems, welding symbols and pipe joints</li> <li>2. Orthographic projections of machine elements, different sectional views- full, auxiliary sections; Isometric projection of components</li> <li>3. Assembly and detailed drawings of a mechanical assembly, such as a plummer block, tool head of a shaping machine, tailstock of a lathe, simple gear box, flange coupling, welded bracket joined by stud bolt on to a structure, welded pipe joints indicating work parts before welding, etc.</li> <li>4. Practicing AutoCAD or similar graphics softwares and making orthographic and isometric projections of different components.</li> </ol>
5		Machine Drawing-II (PC-ME592)	<ol style="list-style-type: none"> <li>1. Projection and Isometric Drawing of Machine components Fasteners: Drawings of various views of Screw threads, metric and BSW threads, Square thread and multi start threads. Nut bolts, Washers, Setscrew, Locknuts and foundation bolts. Riveted joints: Forms and proportions of rivet heads, Different views of different types of riveted Lap and Butt joints.</li> <li>2. Drawings of various views of Shaft joints: Cotter joint and Knuckle joint. Keys &amp; Shaft coupling: Muff,</li> </ol>

			<p>Flanged, Flexible, Universal and Oldhams coupling.</p> <p>3. Assignments using graphic software Assembly and detailed drawings: Tool head of a shaping machine; Engine parts: Eccentric, Piston, Cross head and Connecting rod; Valves: Steam stop valve, Anyone of safety, relief and non-return valves; Solid modeling of Plummer block</p>
6	Metrology & Measurement	Practice of Manufacturing Processes and Systems Laboratory(PC-ME491)	<p>1. Laboratory modules of pneumatics and/or electro-pneumatics</p> <p>2. Laboratory modules of hydraulics and/or electro-hydraulics</p> <p>3. Study of working of Logic Gates practically</p> <p>4. Simulation of designed pneumatics / hydraulics systems</p> <p>5. Measurement of surface roughness</p> <p>6. Measurement of tapered objects using Sine Bar and using balls and rollers, etc.</p> <p>7. Measurement of threads using three wire method.</p> <p>8. Measurement of gears.</p> <p>9. Measurement of bore diameter using micrometer and gauges</p> <p>10. Measurement of angles using bevel vernier protractor</p> <p>11. Statistical process control system to apply to measured dimension of samples</p> <p>12. Practicing different gauges to assess angles, thread, internal and external radius, etc.</p>
7	Applied Thermodynamics & Heat Transfer Laboratory	Mechanical Engineering Laboratory (Thermal) I: (PC-ME591 )	<p>1. Measurement of coefficient of discharge of given Orifice and Venturimeters</p> <p>2. Determination of the density &amp; viscosity of an oil and friction factor of oil flow in a pipe</p> <p>3. Determination of the performance characteristics of a centrifugal pump</p> <p>4. Determination of the performance characteristics of Pelton Wheel</p> <p>5. Determination of the performance characteristics of a Francis Turbine</p> <p>6. Determination of the performance characteristics of a Kaplan Turbine</p> <p>7. Determination of the thermal conductivity and specific</p>

			<p>heat of given objects.</p> <ol style="list-style-type: none"> <li>Determination of the calorific value of a given fuel and its flash &amp; fire point.</li> <li>Determination of the p-V diagram and the performance of a 4-stroke diesel engine</li> <li>Determination of the convective heat transfer coefficient for flow over a heated plate</li> <li>Determination of the emissivity of a given sample</li> <li>Determination of the performance characteristics of a vapour compression system.</li> </ol>
8	Fluid Mechanics And Hydraulic Machine Laboratory	Fluid Mechanics Laboratory (CE (ES) 491)	<ol style="list-style-type: none"> <li>Introduction to fluid mechanics</li> <li>Calibration of Notches</li> <li>Calibration of Orifice Meter</li> <li>Determination of Hydraulic Coefficient of an Orifice.</li> <li>Performance on Centrifugal Pump</li> <li>Performance Test on Reciprocating Pump</li> <li>Determination of Minor Losses in Pipes due to Sudden Enlargement and Sudden Contraction</li> <li>Performance Test on Pelton Wheel Turbine</li> <li>Measurement of water surface profile for flow over Broad crested weir</li> </ol>
9	Applied Mechanics Laboratory & Materials Testing Laboratory	Mechanical Engineering Laboratory (Design) II (PC-ME691)	<ol style="list-style-type: none"> <li>Uniaxial tension test on mild steel rod</li> <li>Torsion test on mild steel rod</li> <li>Impact test on a metallic specimen</li> <li>Brinnell/ Vickers and Rockwell hardness tests on metallic specimens</li> <li>Bending deflection test on beams</li> <li>Strain measurement using Rosette strain gauge, or like.</li> <li>Microscopic examination of heat-treated and untreated metallic samples.</li> <li>Determination of velocity ratios of simple, compound, epicyclic and differential gear trains.</li> <li>Studying kinematics of four bar, slider crank, crank rocker, double crank, double rocker and oscillating cylinder mechanisms.</li> <li>Studying kinematics of typical mechanisms like pantograph, some straight line motion mechanisms,</li> </ol>



			<p>wiper, drafter, etc.</p> <p>11. Motion studies of different cams &amp; followers.</p> <p>12. Single degree of freedom Spring-mass-damper system: determination of natural frequency and damping coefficient.</p> <p>13. Determination of torsional natural frequency of single and double rotor systems undamped and damped natural frequencies.</p> <p>14. Studying machine vibration using sensor.</p> <p>15. Solving simple balancing problems experimentally</p>
10		Solid Mechanics Laboratory (CE (ES) 492)	<p>1. Tension test on Structural Materials: Mild Steel and Tor steel (HYSD bars)</p> <p>2. Bending Test on Mild Steel</p> <p>3. Torsion Test on Mild Steel Circular Bar</p> <p>4. Hardness Tests on Ferrous and Non-Ferrous Metals: Brinell and Rockwell Tests</p> <p>5. Test on closely coiled helical spring</p> <p>6. Impact Test: Izod and Charpy</p> <p>7. Demonstration of Fatigue Test</p>

#### Computer Science & Engineering

Sl No	Lab Name	Equipment	Experiment
1	Lab 1	29 computers	Programming for problem solving, Design and Analysis of Algorithm, Software Engineering, Data Structure.
2.	Lab 2	23 computers	Language Lab
3.	Lab 4	30 computers	IT workshop, Computer organization, Computer Architecture.
4.	Lab 5	30 computers	Operating system, Computer network
5.	Lab 6	30 computers	DBMS, Object oriented programming, Numerical Methods
6.	Lab 7	30 computers	Project, Design Lab

<b>COMPUTER-aided CIVIL ENGINEERING DRAWING (CE (ES) 392)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	SYMBOLS & SIGN CONVENTIONS	COMPUTER, AUTO CAD 2007
2	MASONARY BOND	
3	BUILDING DRAWING	

<b>FLUID MECHANICS LABORATORY (CE (ES) 491)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	Calibration of Notches	V-NOTCH, RECTANGULAR NOTCH & WEIRS
2	Calibration of Orifice Meter	ORIFICE METER
3	Determination of Hydraulic Coefficient of an Orifice	ORIFICEMETER
4	Performance on Centrifugal Pump	CENTRIFUGAL PUMP
5	Performance Test on Reciprocating Pump	RECIPROCATING PUMP
6	Determination of Minor Losses in Pipes due to Sudden Enlargement and Sudden Contraction	FRICTION APPARATUS
7	Performance Test on Pelton Wheel Turbine	PELTON WHEEL TURBINE

<b>SOLID MECHANICS LABORATORY (CE (ES) 492)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	Tension test on Structural Materials: Mild Steel and Tor steel (HYSD bars)	UTM
2	Bending Test on Mild Steel	UTM
3	Torsion Test on Mild Steel Circular Bar	TORSION TESTING MACHINE
4	Hardness Tests on Ferrous and Non-Ferrous Metals: Brinnel and Rockwell Tests	ROCKWELL CUM BRINELL HARDNESS TESTER
5	Test on closely coiled helical spring	SPRING TESTING MACHINE
6	Impact Test: Izod and Charpy	IMPACT TESTING MACHINE
7	Demonstration of Fatigue Test	FATIGUE MACHINE

<b>SURVEYING &amp; GEOMATICS LABORATORY (CE PC 493)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	TRAVERSE SURVEY BY PRISMATIC COMPASS	PRISMATIC COMPASS, TRIPOD STAND, TAPE & RANGING ROD, OPTICAL SQUARE
2	THEODOLITE SURVEYING	THEODOLITE, TRIPOD STAND, RANGING ROD, PLUMB BOB
3	DIFFERENT LEVELLING USING DUMPY LEVEL	DUMPY LEVEL, TRIPOD STAND, PLUMB BOB, LEVELLING STAFF, TAPE & RANGING ROD.
4	TOTAL STATION SURVEY	TOTAL STATION, TRIPOD STAND, PLUMB BOB & PRISM POLE

- **CE (ES)493: ENGINEERING GEOLOGY LABORATORY- NOT AVAILABLE**

<b>CONCRETE TECHNOLOGY LABORATORY (CE PC 494)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	COMPRESSION TEST ON CONCRETE	COMPRESSION TESTING MACHINE
2	SPLIT TENSILE STRENGTH TEST OF CONCRETE	COMPRESSION TESTING MACHINE
3	SPECIFIC GRAVITY OF CEMENT	DENSITY BOTTLE
4	SPECIFIC GRAVITY OF FINE & COARSE AGGREGATE	PYCNOMETER, WIRE & STEEL BASKET, OVEN DRYING MACHINE
5	WORKABILITY TEST	SLUMP CONE, COMPACTING FACTOR APPARATUS
6	BULKING OF SAND	CYLINDRICAL MEASURE
7	FINENESS MODULUS OF FINE & COARSE AGGREGATE	IS SIEVES
8	FINENESS TEST OF CEMENT	IS 90 micron Sieve

9	NORMAL CONSISTENCY AND INITIAL & FINAL SETTING TIME OF CEMENT	VICAT APPARATUS ASSEMBLY
10	COMPRESSIVE STRENGTH TEST OF CEMENT	COMPRESSION TESTING MACHINE, VIBRATOR MACHINE
11	SOUNDNESS TEST OF CEMENT	LE-CHATELIER'S APPARATUS

SOIL MECHANICS LABORATORY (CE PC 594)		
SL	TITLE OF EXPERIMENT	EQUIPMENTS/APPARATUS
1	DETERMINATION OF MOISTURE CONTENT	OVEN DRYING MACHINE, WEIGHT MACHINE
2	SPECIFIC GRAVITY OF COHESIVE & COHEIONLESS SOIL	DENSITY BOTTLE & PYCNOMETER
3	IN SITU DENSITY BY CORE CUTTER & SAND REPLACEMENT METHOD	CORE CUTTER, SAND CONE APPARATUS & 9KG RAMMER
4	GRAIN SIZE DISTRIBUTION	SIEVE SHAKER MACHINE & HYDROMETER
5	ATTERBERG'S LIMIT	EVAPORATING DISH, SPATULA & ALUMINIUM CONTAINERS
6	PERMEBAILITY BY CONSTANT AND VARIABLE HEAD PERMEABILITY TEST	PERMEABILITY APPARTUS
7	STANDARD PROCTOR COMPACTION TEST	MOULD, RAMMER
8	UNCONFINED COMPRESSION TEST	UNCONFINED COMPRESSION TESTER
9	DIRECT SHEAR TEST	DIRECT SHEAR TEST APPARATUS
10	VANE SHEAR TEST	VANE SHEAR TEST APPARATUS
11	C.B.R TEST	C.B.R TESTING MACHINE
12	STANDARD PENETRATION TEST	SPT APPARATUS

<b>TRANSPORTATION ENGINEERING LABORATORY (CE PC 596)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	SHAPE TEST OF AGGREGATE (FLAKINESS & ELONGATION)	THICKNESS & LENGTH GAUGE, IS SIEVES
2	AGGREGATE IMPACT TEST	IMPACT TESTING MACHINE, IS SIEVES
3	LOS ANGELES ABRASION TEST	L.A ABRASION TESTING MACHINE & IS SIEVES
4	SPECIFIC GRAVITY & WATER ABSORPTION OF AGGREGATE	PYCNOMETER, WIRE & STEEL BASKET, OVEN DRYING MACHINE
5	PENETRATION TEST ON BITUMEN	PENETROMETER
6	SOFTENING POINT TEST ON BITUMEN	RING BALL APPARATUS, THERMOMETER
7	FLASH & FIRE POINT TEST ON BITUMEN	PENSKY MARTENS APPARATUS, THERMOMETER
8	CBR TEST	C.B.R TESTING MACHINE

<b>ENVIRONMENTAL ENGINEERING LABORATORY (OLD SYLLABUS: CE 791; NEW SYLLABUS CE PC 595)</b>		
<b>SL</b>	<b>TITLE OF EXPERIMENT</b>	<b>EQUIPMENTS/APPARATUS</b>
1	DISSOLVED OXYGEN IN GIVEN SAMPLE OF WATER	STOPPER BOTTLE, PIPETTE, BURETTE
2	DETERMINATION OF PH VALUE OF A GIVEN SAMPLE	PH METER
3	COMPLEXOMETRIC TITRATION	BURETTE, BEAKER, CONICAL FLASK, PIPETTE
4	ARGENTOMETRIC TITRATION	BURETTE, BEAKER, CONICAL FLASK, PIPETTE, STAND
5	PERCENTAGE OF CHLORINE IN BLEACHING POWDER	BURETTE, BEAKER, CONICAL FLASK & PIPETTE
6	RESIDUAL CHLORINE IN WATER	BURETTE, BEAKER, CONICAL FLASK & PIPETTE

Computing Facilities	
Internet Bandwidth	400 mbps
Number and configuration of System	210 nos
Total number of system connected by LAN	210 nos
Total number of system connected by WAN	230 nos
Major software packages available	21 nos
Special purpose facilities available	Yes
Facilities for conduct of classes/courses in online mode	Yes
Innovation Cell	Yes
Social Media Cell	Yes

List of facilities available	
Games and Sports Facilities	Yes (Outdoor game- Cricket, Football, Basketball, Badminton) (Indoor Game- Carrom, Chess, Gymnasium)
Extra-Curricular Activities	Yes
Soft Skill Development Facilities	Yes

Teaching Learning Process: As per the curriculum structure of the Mulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal. (Online and Off line)

Syllabus

**Maulana Abul Kalam Azad University of Technology, West Bengal**  
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**BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING**  
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Curriculum Structure

First Year First Semester							
Mandatory Induction Program- 3 weeks duration							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Basic Science course	BS-PH101	Physics-I	3	1	0	4
2	Basic Science course	BS-M102	Mathematics –IB	3	1	0	4
3	Engineering Science Courses	ES-EE101	Basic Electrical Engineering	3	1	0	4
	Total Theory			9	3	0	12
Practical							
1	Basic Science course	BS-PH191	Physics-I Laboratory	0	0	3	1.5
2	Engineering Science Courses	ES-EE191	Basic Electrical Engineering Laboratory	0	0	2	1
3	Engineering Science Courses	ES-ME192	Workshop/Manufacturing Practices	1	0	4	3
	Total Practical			1	0	9	5.5
	Total of First Semester			10	3	9	17.5

First Year Second Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Basic Science course	BS-CH201	Chemistry-I (Gr-A)	3	1	0	4
2	Basic Science course	BS-M202	Mathematics –IIB	3	1	0	4
3	Engineering Science Courses	ES-CS 201	Programnning for Problem Solving	3	0	0	3
4	Humanities and Social Sciences including Management courses	HM-HU201	English	2	0	0	2
	Total Theory			11	2	0	13
Practical							
1	Basic Science course	BS-CH291	Chemistry-I Laboratory	0	0	3	1.5
2	Engineering Science Courses	ES-CS 291	Programnning for Problem Solving	0	0	4	2
3	Engineering Science Courses	ES-ME291	Engineering Graphics & Design (Gr-A)	1	0	4	3
4	Humanities and Social Sciences including Management courses	HM-HU291	Language Laboratory	0	0	2	1
	Total Practical			1	0	13	7.5
	Total of Second Semester			12	2	13	20.5

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Second Year Third Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Basic Science course	BS-M301	Mathematics III	3	1	0	4
2	Basic Science course	BS-BIO301	Biology	3	0	0	3
3	Engineering Science Courses	ES-ECE301	Basic Electronics Engineering	3	0	0	3
4	Engineering Science Courses	ES-ME301	Engineering Mechanics	3	1	0	4
5	Professional Core courses	PC-ME301	Thermodynamics	3	1	0	4
6	Professional Core courses	PC-ME302	Manufacturing Processes	4	0	0	4
Total Theory				19	3	0	22
Practical							
1	Professional Core courses	PC-ME391	Practice of Manufacturing Processes	0	0	3	1.5
Total Practical				0	0	3	1.5
Total of Third Semester				19	3	3	23.5

Second Year Fourth Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Engineering Science Courses	ES-ME401	Materials Engineering	3	0	0	3
2	Professional Core courses	PC-ME401	Applied Thermodynamics	3	1	0	4
3	Professional Core courses	PC-ME402	Fluid Mechanics & Fluid Machines	3	1	0	4
4	Professional Core courses	PC-ME403	Strength of Materials	3	1	0	4
5	Professional Core courses	PC-ME404	Metrology and Instrumentation	3	1	0	4
	Total Theory			15	4	0	19
Practical							
1	Professional Core courses	PC-ME491	Practice of Manufacturing Processes and Systems Laboratory	0	0	3	1.5
2	Professional Core courses	PC-ME492	Machine Drawing- I	0	0	3	1.5
3	Mandatory courses	MC 481	Environmental Science	-	-	2	0
	Total Practical			0	0	8	3
	Total of Fourth Semester			15	4	8	22



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Third Year Fifth Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Professional Core courses	PC-ME501	Heat Transfer	3	1	0	4
2	Professional Core courses	PC-ME502	Solid Mechanics	3	1	0	4
3	Professional Core courses	PC-ME503	Kinematics & Theory of Machines	3	1	0	4
4	Humanities and Social Sciences including Management courses	HM-HU501	Effective Technical Communication	3	0	0	3
5	Mandatory courses	MC501	Essence of Indian Knowledge Tradition	-	2	-	0
	Total Theory			12	5	0	15
Practical/ Sessional							
1	Professional Core courses	PC-ME591	Mechanical Engineering Laboratory I (Thermal)	0	0	3	1.5
2	Professional Core courses	PC-ME592	Machine Drawing-II	0	0	3	1.5
3	Project (Summer internship)	PW-ME581	Project-I (30 hrs. Total)	0	0	2	1
	Total Practical			0	0	8	4
	Total of Fifth Semester			12	5	8	19

Third Year Sixth Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Professional Core courses	PC-ME601	Manufacturing Technology	4	0	0	4
2	Professional Core courses	PC-ME602	Design of Machine Elements	3	1	0	4
3	Professional Elective courses	PE-ME601	Elective-I	3	0	0	3
4	Professional Elective courses	PE-ME602	Elective-II	3	0	0	3
5	Humanities and Social Sciences including Management courses	HM-HU601	Operations Research	3	0	0	3
6	Mandatory courses	MC601	Constitution of India	-	2	-	0
	Total Theory			16	3	0	17
Practical/ Sessional							
1	Professional Core courses	PC-ME691	Mechanical Engineering Laboratory II (Design)	0	0	3	1.5
2	Project (or Summer internship)	PW-ME681	Project-II (90 hrs. Total)	0	0	4	2
	Total Practical			0	0	7	3.5
	Total of Sixth Semester			16	3	7	20.5

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Fourth Year Seventh Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
<b>Theory</b>							
1	Professional Core courses	PC-ME701	Advanced Manufacturing Technology	3	0	0	3
2	Professional Elective courses	PE-ME701	Elective III	3	0	0	3
3	Professional Elective courses	PE-ME702	Elective-IV	3	0	0	3
4	Open Elective courses	OE-ME 701	Open Elective-I	3	0	0	3
5	Humanities and Social Sciences including Management courses	HM-HU701	Economics for Engineers	2	0	0	2
<i>Total Theory</i>				<b>14</b>	<b>0</b>	<b>0</b>	<b>14</b>
<b>Practical/ Sessional</b>							
1	Professional Core courses	PC-ME791	Mechanical Engineering Laboratory III (Manufacturing)	0	0	3	1.5
2	Project	PW-ME781	Project-III	0	0	6	3
<i>Total Practical</i>				<b>0</b>	<b>0</b>	<b>9</b>	<b>4.5</b>
<b>Total of Seventh Semester</b>				<b>14</b>	<b>0</b>	<b>9</b>	<b>18.5</b>

Fourth Year Eighth Semester							
Sl No.	Category	Subject Code	Subject Name	Total No. of contact hours			Credits
				L	T	P	
<b>Theory</b>							
1	Professional Elective courses	PE-MES01	Elective V	3	0	0	3
2	Professional Elective courses	PE-MES02	Elective VI	3	0	0	3
3	Open Elective courses	OE-ME S01	Open Elective-II	3	0	0	3
4	Open Elective courses	OE-ME S02	Open Elective- III	3	0	0	3
	<i>Total Theory</i>			<b>12</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>Practical/ Sessional</b>							
1	Project	PW-MESS1	Project-IV	0	0	10	5
2	Professional Core courses	PW-MESS2	Comprehensive viva	0	0	0	1.5
	<i>Total Practical</i>			<b>0</b>	<b>0</b>	<b>10</b>	<b>6.5</b>
	<b>Total of Eighth Semester</b>			<b>12</b>	<b>0</b>	<b>10</b>	<b>18.5</b>
<b>Total Credit</b>							<b>160</b>

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**List of Professional Electives**

There are six Professional Electives in Semester VI, VII and VIII as follows:

(Elective-I) PE-ME601, (Elective-II) PE-ME602,  
 (Elective-III) PE-ME701, (Elective-IV) PE-ME702,  
 (Elective-V) PE-ME801 and (Elective VI) PE-ME802.

There are three baskets of Professional Electives in each of Semester VI, VII and VIII.

Students are to choose two papers from the basket of Professional Electives corresponding to a particular Semester.

**List of Professional Electives in Semester VI for (Elective-I) PE-ME601  
 and (Elective-II) PE-ME602**

Subject Code	Subject name
<b>Thermo-Fluid Group</b>	
A	Internal Combustion Engines and Gas Turbines
B	Refrigeration and Air Conditioning
C	Turbo Machinery
D	Fluid Power Control
E	Advanced Fluid Mechanics
<b>Design Group</b>	
F	Composite Materials
G	Mechatronics
<b>Manufacturing Group</b>	
H	Robotics
I	Material Handling
J	Principles and Practices of Management

Note: If a student chooses the paper, **Turbo Machinery (Code: C)** as a **Professional Elective-I** in **Semester VI**, its paper code will be **PE-ME601C**.

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**List of Professional Electives in Semester VII for (Elective-III) PE-ME701  
 and (Elective-IV) PE-ME702**

Subject Code	Subject name
<b>Thermo-Fluid Group</b>	
A	Automobile Engineering
B	Gas Dynamics and Jet Propulsion
C	Computational Fluid Dynamics
D	Elements of Atmospheric Fluid Dynamics
<b>Design Group</b>	
E	Selection and Testing of Materials
F	Mechanical Vibration
G	Finite Element Analysis
<b>Manufacturing Group</b>	
H	Advanced Welding Technology
I	Quantity Production Methods
J	CAD/CAM

**List of Professional Electives in Semester VIII for (Elective-V) PE-ME801  
 and (Elective-VI) PE-ME802**

Subject Code	Subject name
<b>Thermo-Fluid Group</b>	
A	Analysis and Performance of Fluid Machines
B	Power Plant Engineering
C	Cryogenics
D	Introduction to Wind Engineering
<b>Design Group</b>	
E	Tribology
F	3D Printing and Design
<b>Manufacturing Group</b>	
G	Micro and Nano Manufacturing
H	Process Planning and Cost Estimation
I	Maintenance Engineering

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**List of Open Electives**

There are three Open Elective Course Papers in Semester VII and VIII as follows:  
(Open Elective-I) OE-ME701, (Open Elective-II) OE-ME801 and (Open Elective-III) OE-ME802

There are two baskets of Open Electives one each of Semester VII and VIII.  
Students are to choose one paper from the basket of Open Electives corresponding to Semester VII, and two papers from the basket of Open Electives corresponding to Semester VIII.

**List of Open Electives (OE-ME 701) in Semester VII**

Subject Code	Subject Name
A	Industrial Engineering
B	Project Management
C	Introduction to Product Design and Development
D	Non-conventional Energy Sources
E	Biomechanics and Biomaterials
F	Computational Methods in Engineering
G	Artificial Intelligence (AI)
H	Machine Learning
I	Water Resource Engineering

**List of Open Electives (OE-ME801 and OE-ME802) in Semester VIII**

Subject Code	Subject Name
A	Total Quality Management
B	Entrepreneurship Development
C	Safety and Occupational Health
D	Industrial Pollution and Control
E	Energy Conservation and Management
F	Waste to Energy- An Overview
G	Automation & Control
H	Internet of Things (IoT)
I	Block Chain
J	Cyber Security
K	Quantum Computing
L	Data Sciences
M	Virtual Reality (VR)

Note: If a student chooses the paper, **Industrial Engineering (Code: A)** as an **Open Elective-I in Semester VII**, its paper code will be **OE-ME701A**.

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**Syllabus for B. Tech in Electrical Engineering**  
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**3<sup>rd</sup> Semester**

**Theory:**

SL No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 301	Electric Circuit Theory	3	1	0	4	4
2	PC-EE 302	Analog Electronics	3	0	0	3	3
3	PC-EE 303	Electromagnetic field theory	3	0	0	3	3
4	ES-ME 301	Engineering Mechanics	3	0	0	3	3
5	B5-M 301	Mathematics-III	3	0	0	3	3
6	B5-EE301	Biology for Engineers	3	0	0	3	3
7	MC-EE 301	Indian Constitution	3	0	0	3	0
		<b>TOTAL OF SEMESTER:</b>				22	19

**Practical / Sessional:**

SL No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 391	Electric Circuit Theory Laboratory	0	0	2	2	1
2	PC-EE 392	Analog Electronics laboratory	0	0	2	2	1
3	PC-CS 391	Numerical Methods laboratory	0	0	2	2	1
		Total of Practical / Sessional				06	3
		<b>TOTAL OF SEMESTER:</b>				28	22

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**Syllabus for B. Tech in Electrical Engineering**

(Applicable from the academic session 2018-2019)

**4<sup>th</sup> Semester**

**Theory:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 401	Electric machine-I	3	0	0	3	3
2	PC-EE 402	Digital Electronic	3	0	0	3	3
3	PC-EE 403	Electrical and Electronics Measurement	3	0	0	3	3
4	ES-EE 401	Thermal Power Engineering	3	0	0	3	3
5	HM-EE401	Values and Ethics in profession	3	0	0	3	3
6	MC- EE401	Environmental Science	3	0	0	3	0
TOTAL OF SEMESTER:						18	15

**Practical / Sessional:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 491	Electric machine-I laboratory	0	0	2	2	1
2	PC-EE 492	Digital electronics laboratory	0	0	2	2	1
3	PC-EE 493	Electrical and electronic measurement laboratory	0	0	2	2	1
4	ES-ME 491	Thermal power engineering laboratory	0		2	2	1
		Total of Practical / Sessional				08	4
TOTAL OF SEMESTER:						26	19

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**5<sup>th</sup> Semester**

**Theory:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 501	Electric machine-II	3	0	0	3	3
2	PC-EE 502	Power system-I	3	0	0	3	3
3	PC-EE 503	Control system	3	0	0	3	3
4	PC-EE 504	Power electronics	3	0	0	3	3
5	PE-EE 501	A. High voltage Engineering B. Power Plant Engineering C. Renewable & Non conventional energy	3	0	0	3	3
6	OE-EE 501	A. Data structure & algorithm B. Object oriented programming C. Computer organization & architecture	3	0	0	3	3
TOTAL OF SEMESTER:						18	18

**Practical / Sessional:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 591	Electric Machine-II laboratory	0	0	2	2	1
2	PC-EE 592	Power system-I laboratory	0	0	2	2	1
3	PC-EE 593	Control system laboratory	0	0	2	2	1
4	PC-EE 594	Power Electronics laboratory	0	0	2	2	1
		Total of Practical / Sessional				08	4
TOTAL OF SEMESTER:						26	22



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**6<sup>th</sup> Semester**

**Theory:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 601	Power System-II	3		0	3	3
2	PC-EE-602	Micro processor & micro controller	3	0	0	3	3
3	PE-EE 601	A. Digital control system B. HVDC transmission C. Electrical Machine Design	3	0	0	3	3
4	PE-EE 602	A. Electrical and Hybrid vehicle B. Power quality & FACTS C. Industrial Electrical systems	3	0	0	3	3
5	OE-EE 601	A. Digital Signal Processing B. Communication Engineering C. VLSI & Microelectronics	3	0	0	3	3
6	HM-EE 601	Economics for Engineers	3	0	0	3	3
		<b>TOTAL OF SEMESTER:</b>				18	18

**Practical / Sessional:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 691	Power system-II laboratory	0	0	2	2	1
2	PC-EE692	Micro processor & microcontroller laboratory	0	0	2	2	1
2	PC-EE 681	Electrical & Electronic design laboratory	1	0	4	5	3
		<b>Total of Practical / Sessional</b>				09	05
		<b>TOTAL OF SEMESTER:</b>				27	23

Summer Internship of 3-week duration after 6<sup>th</sup> semester. Students will be assessed based on submission of report on internship and presentation in a seminar in 7<sup>th</sup> semester

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**7<sup>th</sup> Semester**

**Theory:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 701	Electric Drive	3	0	0	3	3
2	PE-EE 701	A. Control system Design B. Electrical Energy conservation & Auditing C. Power generation economics	3	0	0	3	3
3	OE-EE701	A. Artificial intelligence B. Internet of things C. Computer graphics	3	0	0	3	3
4	OE-EE702	A. Embedded system B. Digital image processing C. Computer network	3		0	3	3
5	HM-EE701	Principle of Management	3	0	0	3	3
		<b>TOTAL OF SEMESTER:</b>				15	15

**Practical / Sessional:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE 791	Electric Drive laboratory	0	0	2	2	1
2	PW-EE 781	Project stage-I	0	0	4	4	2
3	PW-EE782	Seminar	0	0	0	0	1
		Total of Practical / Sessional				06	04
		<b>TOTAL OF SEMESTER:</b>				21	19

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(Applicable from the academic session 2018-2019)

**8<sup>th</sup> Semester****Theory:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE S01	Utilization of Electric Power	3	0	0	3	3
2	PE-EE S01	A. Line-commutated and active PWM rectifiers B. Power system dynamics & control C. Advanced Electric Drives D. Industrial Automation and Control	3	0	0	3	3
3	OE-EE S01	A. Soft computing Techniques B. Biomedical Instrumentation C. Introduction to Machine learning D. Sensors and Transducers	3	0	0	3	3
TOTAL OF SEMESTER:						09	09

**Practical / Sessional:**

Sl No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PW-EE S01	Project stage-II	0	0	16	16	8
		Total of Practical / Sessional				16	08
TOTAL OF SEMESTER:						25	17

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**Syllabus for B. Tech in Computer Science & Engineering**  
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**Curriculum Structure**

Semester III (Second year)							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Engineering Science Course	ESC 301	Analog and Digital Electronics	3	0	0	3
2	Professional Core Courses	PCC-CS301	Data Structure & Algorithms	3	0	0	3
3	Professional Core Courses	PCC-CS302	Computer Organisation	3	0	0	3
4	Basic Science course	BSC 301	Mathematics-III (Differential Calculus)	2	0	0	2
5	Humanities & Social Sciences including Management courses	HSMC 301	Economics for Engineers (Humanities-II)	3	0	0	3
Practical							
6	Professional Core Courses	PCC-CS393	IT Workshop (Sci Lab/MATLAB/Python/R)	0	0	4	2
7	Engineering Science Course	ESC 391	Analog and Digital Electronics	0	0	4	2
8	Professional Core Courses	PCC-CS391	Data Structure & Algorithms	0	0	4	2
9	Professional Core Courses	PCC-CS392	Computer Organisation	0	0	4	2
			Total credits				22
Semester IV (Second year)							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Professional Core Courses	PCC-CS401	Discrete Mathematics	3	1	0	4
2	Professional Core Courses	PCC-CS 402	Computer Architecture	3	0	0	3
3	Professional Core Courses	PCC-CS403	Formal Language & Automata Theory	3	0	0	3

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4	Professional Core Courses	PCC-CS404	Design & Analysis of Algorithms	3	0	0	3
5	Basic Science courses	BSC 401	Biology	2	1	0	3
6	Mandatory Courses	MC401	Environmental Sciences	1	-	-	1
<b>Practical</b>							
7	Engineering Science Course	PCC-CS 492	Computer Architecture	0	0	4	2
8	Professional Core Courses	PCC-CS494	Design & Analysis of Algorithms	0	0	4	2
<b>Total credits</b>							<b>21</b>

<b>Semester V (Third year)</b>							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
1	Engineering Science Course	ESC501	Software Engineering	3	0	0	3
2	Professional Core Courses	PCC-CS501	Compiler Design	3	0	0	3
3	Professional Core Courses	PCC-CS502	Operating Systems	3	0	0	3
4	Professional Core Courses	PCC-CS503	Object Oriented Programming	3	0	0	3
5	Humanities & Social Sciences including Management courses	HSMC-501	Introduction to Industrial Management (Humanities III)	3	0	0	3
6	Professional Elective	PEC-IT 501A/B/C/D	(Elective-I) Theory of	3	0	0	3

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	courses		Computation/Artificial Intelligence/ Advanced Computer Architecture/ Computer Graphics				
7	Mandatory Courses	MC- CS501	Constitution of India/ Essence of Indian Knowledge Tradition	-	-	-	0
<b>Practical</b>							
8	Professional Core Courses	ESC- 591	Software Engineering		0	4	2
9	Professional Core Courses	PCC- CS592	Operating Systems		0	4	2
10	Professional Core Courses	PCC- CS593	Object Oriented Programming		0	4	2
<b>Total credits</b>							<b>24</b>

<b>Semester VI (Third year)</b>							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
1	Professional Core Courses	PCC- CS601	Database Management Systems	3	0	0	3
2	Professional Core Courses	PCC- CS602	Computer Networks	3	0	0	3
3	Professional Elective courses	PEC- IT601A/B/C/D	(Elective-II) Advanced Algorithms/ Distributed Systems/ Signals & Systems / Image Processing	3	0	0	3
4	Professional Elective courses	PEC- IT602A/B/C/D	(Elective-III) Parallel and Distributed Algorithms/ Data Warehousing & Data Mining/Human Computer Interaction/Pattern Recognition	3	0	0	3

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5	Open Elective courses	OEC-IT601A/B	(Open Elective-) Numerical Methods/ Human Resource Development and Organizational Behavior	3	0	0	3
6	Project	PROJ-CS601	Research Methodology	3	0	0	3
<b>Practical</b>							
7	Professional Core Courses	PCC-CS691	Database Management Systems	0	0	4	2
8	Professional Core Courses	PCC-CS692	Computer Networks	0	0	4	2
<b>Total credits</b>							<b>22</b>

<b>Semester VII (Fourth year)</b>							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
1	Professional Elective courses	PEC-CS 701A/B/C/D/E	(Elective-IV) Quantum Computing/ Cloud Computing/ Digital Signal Processing/Multi-agent Intelligent Systems/Machine learning	3	0	0	3
2	Professional Elective courses	PEC-CS 702A/B/C/D/E	(Elective-V) Neural Networks and Deep Learning/ Soft Computing/ Ad-Hoc and Sensor Networks/Information Theory and Coding/Cyber Security	3	0	0	3
3	Open Elective courses	OEC-CS 701A/B/C	(Open Elective-II) Operations Research/Multimedia Systems/Introduction to Philosophical Thoughts	3	0	0	3
4	Humanities & Social	HSM	Project Management and	2	1	0	3



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	Sciences including Management courses	C 701	Entrepreneurship				
5	Project	PROJ-CS781	Project-II	0	0	12	6
			<b>Total credits</b>				<b>18</b>

<b>Semester VIII (Fourth year)</b>							
<b>[Summer Industry Internship]</b>							
Sl. No.	Type of course	Code	Course Title	Hours per week			Credits
				L	T	P	
1	Professional Elective courses	PEC-CS801A/B/C/D/E	(Elective-VI) Signals and Networks/Cryptography & Network Security/Speech and Natural Language Processing/Web and Internet Technology/Internet of Things	3	0	0	3
2	Open Elective courses	OEC-CS801A/B/C/D/E	Open Elective-III Big Data Analysis/Cyber Law and Ethics/ Mobile Computing/Robotics/Soft Skill & Interpersonal Communication	3	0	0	3
3	Open Elective courses	OEC-CS802A/B/C	(Open Elective-IV) E-Commerce and ERP/Micro-electronics and VLSI Design/Economic Policies in India	3	0	0	3
4	Project	PROJ-CS881	Project-III	0	0	12	6
			<b>Total credits</b>				<b>15</b>



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**Curriculum Structure**  
**Semester III (Second year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Basic Science courses	CE(BS)301	Biology for Engineers	2	1	0	3
2	Engineering Science Courses	CE(ES)301	Engineering Mechanics	3	1	0	4
3	Engineering Science Courses	CE(ES)302	Energy Science & Engineering	1	1	0	2
4	Basic Science courses	CE(BS)301	Mathematics-III (Transform & Discrete Mathematics)	2	0	0	2
5	Humanities and Social Sciences including Management courses	CE(HS)301	Humanities-I (Effective Technical Communication)	3	0	0	3
6	Humanities and Social Sciences including Management courses	CE(HS)302	Introduction to Civil Engineering	1	1	0	2
Theory credits							16
Practical/ Sessional							
1	Engineering Science Courses	CE(ES)391	Basic Electronics	1	0	2	2
2	Engineering Science Courses	CE(ES)392	Computer-aided Civil Engineering Drawing	1	0	2	2
3	Engineering Science Courses	CE(ES)393	Life Science	1	0	2	2
Practical credits							6
Total credits							22

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**Semester IV (Second year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Engineering Science Courses	CE(ES)401	Introduction to Fluid Mechanics	2	0	0	2
2	Engineering Science Courses	CE(ES)402	Introduction to Solid Mechanics	2	0	0	2
3	Professional Core courses	CE(PC)401	Soil Mechanics – I	2	1	0	3
4	Professional Core courses	CE(PC)402	Environmental Engineering -I	2	1	0	3
5	Professional Core courses	CE(PC)403	Surveying & Geomatics	2	1	0	3
6	Professional Core courses	CE(PC)404	Concrete Technology	2	1	0	3
7	Humanities and Social Sciences including Management courses	CE(HS)401	Civil Engineering - Societal & Global Impact	2	0	0	2
8	Mandatory Courses (non-credit)	CE(MC)401	Management I (Organizational Behavior)	2	0	0	0
Theory credits							18
Practical/ Sessional							
1	Professional Core courses	CE(ES)491	Fluid Mechanics Laboratory	0	0	2	1
2	Professional Core courses	CE(ES)492	Solid Mechanics Laboratory	0	0	2	1
3	Professional Core courses	CE(ES)493	Engineering Geology Laboratory	0	0	2	1
4	Professional Core courses	CE(PC)493	Surveying & Geomatics	0	0	2	1
5	Professional Core courses	CE(PC)494	Concrete Technology Laboratory	0	0	2	1
Practical credits							5
Total credits							23

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**Semester V (Third year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Professional Core courses	CE(PC)501	Design of RC Structures	2	1	0	3
2	Professional Core courses	CE(PC)502	Engineering Hydrology	2	1	0	3
3	Professional Core courses	CE(PC)503	Structural Analysis – I	2	1	0	3
4	Professional Core courses	CE(PC)504	Soil Mechanics – II	2	1	0	3
5	Professional Core courses	CE(PC)505	Environmental Engineering – II	2	1	0	3
6	Professional Core courses	CE(PC)506	Transportation Engineering	2	1	0	3
7	Mandatory courses (non-credit)	CE(MC)501	Constitution of India/ Essence of Indian Knowledge Tradition	-	-	-	0
Theory credits							18
Practical/ Sessional							
1	Professional core courses	CE(PC)591	RC Design Sessional	0	0	2	1
2	Professional core courses	CE(PC)594	Soil Mechanics Laboratory	0	0	2	1
3	Professional core courses	CE(PC)595	Environmental Engineering Laboratory	0	0	2	1
4	Professional core courses	CE(PC)596	Transportation Engineering Laboratory	0	0	2	1
5	Professional core courses	CE(PC)597	Computer Application in CE	0	0	2	1
Practical credits							5
Total credits							23

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**Semester VI (Third year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
Theory							
1	Professional Core courses	CE(PC)601	Construction Engineering & Management	2	0	0	2
2	Professional Core courses	CE(PC)602	Engineering Economics, Estimation & Costing	2	0	0	2
3	Professional Core courses	CE(PC)603	Water Resources Engineering	2	0	0	2
4	Professional Core courses	CE(PC)604	Design of Steel Structures	2	0	0	2
5	Professional Elective courses	CE(PE)601	Elective-I	2	0	0	2
6	Professional Elective courses	CE(PE)602	Elective-II	2	0	0	2
7	Open Elective courses	CE(OE)601	Open Elective-I (Humanities)	2	0	0	2
Theory credits							14
Practical/ Sessional							
1	Professional Core courses	CE(PC)693	Water Resource Engineering Laboratory	0	0	2	1
2	Professional Core courses	CE(PC)694	Steel Structure Design Sessional	0	0	2	1
3	Professional Core courses	CE(PC)695	Quantity Survey Estimation and Valuation Sessional	0	1	2	2
Practical credits							4
Total credits							18

<b>CE(PE)601 (Elective-I)</b>	<b>CE(PE)602 (Elective-II)</b>
601A: Stability of Slopes	602A : Building Construction Practice
601B: <b>Foundation Engineering</b>	602B : <b>Structural Analysis-II</b>
601C: Ground Improvement Technique	602C : Industrial Structures
<b>CE(OE)601 (Open Elective-I)</b>	
601A: Soft Skills and Interpersonal Communication – I	
601B: Introduction to Philosophical Thoughts	



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**Semester VII (Fourth year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
<b>Theory</b>							
1	Open Elective courses	CE(OE)701	Open Elective-II	2	0	0	2
2	Professional Elective courses	CE(PE)701	Elective III	2	1	0	3
3	Professional Elective courses	CE(PE)702	Elective IV	2	1	0	3
4	Professional Elective courses	CE(PE)703	Elective V	2	1	0	3
5	Professional Elective courses	CE(PE)704	Elective-VI	2	1	0	3
6	Professional Elective courses	CE(PE)705	Elective-VII	2	0	0	2
<b>Theory credits</b>							<b>16</b>
<b>Practical/ Sessional</b>							
1	Internship	CE(IN)791	Industrial Internship (after sixth semester)				1
2	Project	CE(PROJ)792	Project-1 (Project work)	0	0	10	5
<b>Practical credits</b>							<b>6</b>
<b>Total credits</b>							<b>22</b>

<b>CE(OE)701 (Open Elective-II)</b>	<b>CE(PE)701 (Elective-III)</b>
A: Metro Systems & Engineering	701A: Computational Hydraulics
B: ICT for Development	701B: Disaster Preparedness and Planning
C: Cyber Law & Ethics	701C: Hydraulic Structure
<b>CE(PE)702 (Elective-IV)</b>	<b>CE(PE)703 (Elective-V)</b>
702A: Prestressed Concrete	703A: Air and Noise Pollution and Control
702B: Repairs & Rehabilitation of Structures	703B: Physico-Chemical Processes for Water and Wastewater Treatment
702C: Finite Element Method	703C: Water and Air Quality Modelling
<b>CE(PE)704 (Elective-VI)</b>	<b>CE(PE)705 (Elective-VII)</b>
704A: Structural Dynamics	705A: Railway and Airport Engineering
704B: Advanced Structural Analysis	705B: Pavement Design
704C: Coastal Hydraulics and Sediment Transport	705C: Transport System Planning

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**Semester VIII (Fourth year)**

Sl. No.	Category	Code	Course Title	Hours per week			Credits
				L	T	P	
<b>Theory</b>							
1	Humanities and Social Sciences including Management courses	CE(HS)801	Professional Practice, law & Ethics	2	0	0	2
2	Professional Elective Courses	CE(PE)801	Elective VIII	2	0	0	2
3	Open Elective courses	CE(OE)801	Open Elective-III	2	0	0	2
4	Open Elective courses	CE(OE)802	Open Elective-IV	2	0	2	2
<b>Theory credits</b>							<b>8</b>
<b>Practical/ Sessional</b>							
1	Comprehensive Viva Voce	CE(CV)882	Comprehensive Viva Voce				1
2	Project	CE(PROJ)881	Project-2 (Continued from VII)	0	0	10	5
<b>Practical credits</b>							<b>6</b>
<b>Total credits</b>							<b>14</b>
<b>CE(PE)801 (Elective-VIII)</b>							
801A: GIS & Remote Sensing 801B: Rock Mechanics 801C: Environmental laws and Policy 801D: Pavement Materials and Design							
<b>CE(OE)801 (Open Elective-III)</b>			<b>CE(OE)802 (Open Elective-IV)</b>				
A: Human Resource Development and Organizational Behavior B: Bridge Engineering C: Deep Foundations D: Groundwater Contamination			A: Soft Skills and Personality Development B: Earthquake Engineering C: Urban Transport Planning D: Environmental Impact Assessment and Life cycle Analysis				

**TOTAL CREDITS – [38 +(22+23)+(23+18)+(21+15)]=160**

SEM 1 & SEM 2	SEM3	SEM4	SEM5	SEM6	SEM7	SEM8	Total
38	22	23	23	18	21	15	160

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Curriculum Structure

**2nd Year: 3<sup>rd</sup> Semester**

A. Theory							
Sl No	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	EC301	Electronic Devices	3	0	0	3	3
2.	EC302	Digital System Design	3	0	0	3	3
3.	EC303	Signals and Systems	3	0	0	3	3
4.	EC304	Network Theory	3	0	0	3	3
5.	ES-CS301	Data Structure & Algorithm (ES)	3	0	0	3	3
6.	BS-M301	Probability & Statistics(BS)	3	0	0	3	3
Total Theory						18	18
B. Practical							
7.	EC391	Electronic Devices Lab.	0	0	2	2	1
8.	EC392	Digital System Design Lab.	0	0	2	2	1
9.	ES-CS391	Data Structure Lab(ES)	0	0	2	2	1
Total Practical						6	3
Total Credits						24	21
C. Non Credit Course							
	MC381	Environmental Science	0	0	2	2	0

**2ndYear: 4th Semester**

A. Theory							
Sl No	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	EC401	Analog Communication	3	0	0	3	3
2.	EC402	Analog Electronic Circuits	3	0	0	3	3
3.	EC403	Microprocessor &Microcontrollers	3	0	0	3	3
4.	ES-CS401	Design and Analysis of Algorithm(ES)	3	0	0	3	3
5.	BS-M401	Numerical Methods(BS)	2	0	0	2	2
6.	BS-B401	Biology for Engineers	2	1	0	3	3
Total Theory						14	17
B. Practical							
7.	EC491	Analog Communication Lab	0	0	2	2	1
8.	EC492	Analog Electronic Circuits Lab.	0	0	2	2	1
9.	EC493	Microprocessor & Microcontrollers Lab	0	0	2	2	1
10.	BS-M(CS)491	Numerical Methods Lab	0	0	2	2	1
11.	HS-HU481	Soft Skill Development Lab	0	0	2	2	1
Total Practical						10	5
Total Credits						24	22

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**3rd Year: 5th Semester**

<b>A. Theory</b>							
Sl No.	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	EC501	Electromagnetic Waves	3	0	0	3	3
2.	EC502	Computer Architecture	3	0	0	3	3
3.	EC503	Digital Communication & Stochastic Process	3	1	0	4	3.5
4.	EC504	Digital Signal Processing	3	0	0	3	3
5.	PE-EC505	Program Elective I	3	0	0	3	3
6.	OE-EC506 A/B/C/D	Open Elective I	3	0	0	3	3
<b>Total Theory</b>						<b>19</b>	<b>18.5</b>
<b>B. Practical</b>							
7.	EC591	Electromagnetic Wave Lab	0	0	2	2	1
8.	EC592	Digital Communication Lab.	0	0	2	2	1
9.	EC593	Digital Signal Processing Lab.	0	0	2	2	1
<b>Total Practical</b>						<b>6</b>	<b>3</b>
<b>C. Sessional</b>							
10.	MC-HU581	Effective Technical Communication	0	0	3	3	0
<b>Total Credits</b>						<b>28</b>	<b>21.5</b>

**3rd Year: 6th Semester**

<b>C. Theory</b>							
Sl No	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	EC601	Control System & Instrumentation	3	0	0	3	3
2.	EC602	Computer Network	3	0	0	3	3
3.	PE-EC603	Program Elective II	3	0	0	3	3
4.	OE-EC604	Open Elective II	3	0	0	3	3
5.	HS-HU601	Economics for Engineers	3	0	0	3	3
<b>Total Theory</b>						<b>15</b>	<b>15</b>
<b>D. Practical</b>							
6.	EC692	Computer Network Lab.	0	0	2	2	1
7.	EC691	Control System and Instrumentation Lab.	0	0	2	2	1
8.	EC681	Mini Project/ Electronic Design Workshop	0	0	4	4	2
<b>Total Practical</b>						<b>8</b>	<b>4</b>
<b>Total Credits</b>						<b>23</b>	<b>19</b>
9	MC681	Universal Human Values	2	0	0	2	0



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**4th Year: 7<sup>th</sup> Semester**

D. Theory							
Sl No	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	PE-EC701	Program Elective -3	3	0	0	3	3
2.	PE-EC702	Program Elective -4	3	0	0	3	3
3.	PE-EC703	Program Elective -5	3	0	0	3	3
4.	OE-EC704	Open Elective - 3	3	0	0	3	3
5.	HS-HU701	Principles of Management	2	0	0	2	2
Total Theory						14	14
E. Practical							
6	EC781	Industrial Training	During Semester Break (6 <sup>th</sup> & 7 <sup>th</sup> )				1
7.	EC782	Project Stage – I	0	0	8	8	4
Total Practical						8	5
Total Credits						22	19

**4<sup>th</sup> Year: 8<sup>th</sup> Semester**

E. Theory							
Sl No	Field	Theory	Contact Hours/week				Credit Points
			L	T	P	Total	
1.	PE-EC801	Program Elective – 6	3	0	0	3	3
2.	PE-EC802	Program Elective - 7	3	0	0	3	3
3.	OE-EC803	Open Elective - 4	3	0	0	3	3
4.	OE-EC804	Open Elective - 5	3	0	0	3	3
Total Theory						12	12
F. Practical							
5.	EC881	Project Stage – II	0	0	15	15	7.5
6.	EC882	Grand Viva					1.5
Total Practical						15	9
Total Contact /Credits						27	21

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Professional Electives

Sl No.	Course Code	Course Title	Hours/week			Credits	Semester
			L	T	P		
1	PE-EC505A	Nano Electronics	3	0	0	3	V
2	PE-EC505B	Speech and Audio Processing	3	0	0	3	
3	PE-EC505C	Power Electronics	3	0	0	3	
4	PE-EC505D	Scientific Computing	3	0	0	3	
5	PE-EC603A	Introduction to MEMS	3	0	0	3	M
6	PE-EC603B	Bio-Medical Electronics	3	0	0	3	
7	PE-EC603C	CMOS VLSI Design	3	0	0	3	
8	PE-EC603D	Information Theory & Coding	3	0	0	3	
9	PE-EC701A	Microwave Theory and Techniques	3	0	0	3	MI
10	PE-EC701B	Satellite Communication	3	0	0	3	
11	PE-EC701C	Mobile Communication and Networks	3	0	0	3	
12	PE-EC702A	Adaptive Signal Processing	3	0	0	3	
13	PE-EC702B	Digital Image and Video Processing	3	0	0	3	
14	PE-EC702C	Neural Network and Fuzzy Logic Control	3	0	0	3	
15	PE-EC703A	Embedded System	3	0	0	3	
16	PE-EC703B	Wireless Sensor Networks	3	0	0	3	
17	PE-EC703C	Wavelet Transforms	3	0	0	3	
18	PE-EC801A	Antennas and Propagation	3	0	0	3	MII
19	PE-EC801B	Fibre Optic Communication	3	0	0	3	
20	PE-EC801C	Error Correcting Codes	3	0	0	3	
21	PE-EC802A	Mixed Signal Design	3	0	0	3	
22	PE-EC802B	Industrial Automation and Control	3	0	0	3	
23	PE-EC802C	VLSI Design Automation	3	0	0	3	

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List of Open Elective

Sl No.	Course Code	Course Title	Hours/week			Credits	Semester
			L	T	P		
1	OE-EC506A	Soft Skill and Interpersonal Communication	3	0	0	3	V
2	OE-EC506B	Cyber Law & Intellectual Property Rights	3	0	0	3	
3	OE-EC506C	Human Resource Management	3	0	0	3	
4	OE-EC604A	Electronic Measurements and Measuring Instruments	3	0	0	3	VI
5	OE-EC604B	Operating System	3	0	0	3	
6	OE-EC604C	Object Oriented Programming	3	0	0	3	
7	OE-EC704A	Web Technology	3	0	0	3	VII
8	OE-EC704B	Optimisation Technique	3	0	0	3	
9	OE-EC704C	Entrepreneurship	3	0	0	3	
10	OE-EC803A	Internet of Things(IoT)	3	0	0	3	VIII
11	OE-EC803B	Big Data Analysis	3	0	0	3	
12	OE-EC803C	Cyber Security	3	0	0	3	
13	OE-EC804A	Artificial Intelligence	3	0	0	3	
14	OE-EC804B	Microwave Integrated Circuits	3	0	0	3	
15	OE-EC804C	Organisational Behaviour	3	0	0	3	

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY**

*(Formerly West Bengal University of Technology)*

**Master of Technology- Electronics and Telecommunication**

**Specialization: Communications**

**(Effective from 2018-2019 Admission Session)**

Curriculum Structure							
Semester-I							
Sl No.	Category	Subject Code	Subject Name	Total Number of contact hours			Credits
				L	T	P	
Theory							
1	Program Core I	MCE101	Advanced Communication Networks	3	0	0	3
2	Program Core II	MCE 102	Wireless and Mobile Communication	3	0	0	3
3	Program Elective-I	MCE 103	Program Elective-I	3	0	0	3
4	Program Elective-II	MCE 104	Program Elective-II	3	0	0	3
5	Mandatory Learning Course	MCE105	Research Methodology and IPR	2	0	0	2
6	Audit Course 1	MCE 106	Audit Course 1	2	0	0	0
Total Theory				16	0	0	14
Practical							
1	Laboratory I	MCE 191	Advanced Communication Networks Lab	0	0	4	2
2	Laboratory II	MCE 192	Wireless and Mobile Communication Lab	0	0	4	2
Total Practical				0	0	8	4
Total of Semester-I				16	0	8	18
Semester-II							
Theory							
1	Program Core III	MCE 201	Antennas and Radiating Systems	3	0	0	3
2	Program Core IV	MCE 202	Advanced Digital Signal Processing	3	0	0	3
3	Program Elective-III	MCE 203	Program Elective-III	3	0	0	3
4	Program Elective-IV	MCE 204	Program Elective-IV	3	0	0	3
5	Audit Course 2	MCE 205	Audit Course 2	2	0	0	0
Total Theory				14	0	0	12
Practical							
1	Laboratory III	MCE 291	Antennas and Radiating Systems lab	0	0	4	2
2	Laboratory IV	MCE 292	Advanced Digital Signal Processing Lab	0	0	4	2
Total Practical				0	0	8	4
Sessional							
1	Mini Project	MCE 281	Mini Project with Seminar	0	0	3	2
Total of Semester-II				14	0	11	18
Semester-III							
Theory*							
1	Program Elective-V	MCE 301	Program Elective-V	3	0	0	3
2	Open Elective	MCE 302	Open Elective	3	0	0	3
Total Theory				6	0	0	6
Sessional							
1	Major Project	MCE 381	Dissertation -I	0	0	20	10
Total of Semester-III				6	0	0	16
Semester-IV							
Sessional							
1	Major Project	MCE 481	Dissertation -II	0	0	32	16
Total of Semester-IV				0	0	32	16
Total Credits for the programme							68

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**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY**

*(Formerly West Bengal University of Technology)*

**Master of Technology- Electronics and Telecommunication**

**Specialization: Communications**

**(Effective from 2018-2019 Admission Session)**

**List of Program Electives**

- ❖ **Program Elective – I**                      **MCE 103**
  - A. Wireless Sensor Networks
  - B. Optical Networks
  - C. Statistical Information Processing
- ❖ **Program Elective – II**                      **MCE 104**
  - A. Cognitive Radio
  - B. RF and Microwave Circuit Design
  - C. DSP Architecture
- ❖ **Program Elective – III**                      **MCE 203**
  - A. Satellite Communication
  - B. Internet of Things
  - C. Voice and data networks
- ❖ **Program Elective – IV**                      **MCE 204**
  - A. Markov Chain and Queuing System
  - B. MIMO System
  - C. Programmable Networks –SDN, NFV
- ❖ **Program Elective – V**                      **MCE 301**
  - A. High Performance Networks
  - B. Pattern Recognition and Machine Learning
  - C. Remote Sensing

**List of Open Electives** (as per AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology- January 2018)                      **MCE 302**

- A. Business Analytics
- B. Operations Research
- C. Cost Management of Engineering Projects
- D. Industrial Safety
- E. Composite Materials
- F. Waste to Energy

**Audit course 1 & 2** (as per AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology- January 2018)

**MCE 106**

- A. English for Research Paper Writing
- B. Pedagogy Studies
- C. Value Education
- D. Stress Management by Yoga

**MCE 205**

- A. Personality Development through Life Enlightenment Skills.
- B. Sanskrit for Technical Knowledge
- C. Constitution of India
- D. Disaster Management

# Academic Calendar of the University

## Academic Calendar 2022-2023



**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**  
(FORMERLY KNOWN AS WEST BENGAL UNIVERSITY OF TECHNOLOGY)  
Main Campus : Haringhata, Nadia, Pin-741249  
Kolkata Campus : DF-142, SECTOR-I, SALT LAKE CITY, KOLKATA-700 064, (INDIA)  
Website : [www.wbuit.ac.in](http://www.wbuit.ac.in)

Ref. No. :

Date :

### Academic Calendar for Academic Session 2022-23

Activity	Start Date	End date
<b>Odd Semester 2022-23</b>		
Commencement of Academic Programs (3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> and 9 <sup>th</sup> Sem)	04.07.2022	
Enrollment of students (3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> and 9 <sup>th</sup> Sem)	07.07.22	15.07.22
Commencement and Enrollment of students of 1 <sup>st</sup> semester	As per admission dates. Would be notified separately	
Submission of CA1	01.08.22	04.08.22
Submission of CA2& PCA1	01.09.22	04.09.22
Submission of CA3	17.10.22	20.10.22
Submission of CA4& PCA 2	09.11.22	12.11.22
Pre-Examination activities (Form fill-up etc.) Odd Sem 2022-23	16.11.22	24.11.22
Practical, Sessional and Viva-Voce examinations	25.11.22	30.11.22
Marks submission for Practical, Sessional and Viva-Voce exams	01.12.22	05.12.22
Theory Examinations for odd semester 2022-23	02.12.22	24.12.22
<b>Even Semester 2022-23</b>		
Commencement of Academic Programs (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> , 8 <sup>th</sup> , 10 <sup>th</sup> Sem)	02.01.2023	
Enrollment of students	04.01.23	12.01.23
Submission of CA1	01.02.23	04.02.23
Submission of CA2& PCA1	01.03.23	04.03.23
Submission of CA3	01.04.23	04.04.23
Submission of CA4& PCA 2	01.05.23	04.05.23
Pre Examination activities (Form fill-up etc.) Even Sem 2022-23	08.05.23	16.05.23
Practical, Sessional and Viva-Voce examinations	22.05.23	27.05.23
Marks submission for Practical, Sessional and Viva-Voce exams	28.05.23	30.05.23
Theory Examinations for even semester 2022-23	01.06.23	20.06.23

Class Routine: All Class has been taken by the concern faculties through On Line Process during COVID-19 time (March 2020 to February 2022). From March 2022 Off Line Classes Started.
Teaching Load of each Faculty: As per the AICTE Norms
Internal Continuous Evaluation System and place: As per the Norms and orders of the University from time to time
As per university rule four class tests are conducted in a semester for continuous assessment of students.: Through Online process
Student's assessment of Faculty, System in place: As per the Norms and orders of the University from time to time
Institute collect student's feedback in feedback form once in a semester and takes necessary action according to the feedback.: Yes

15	Placement Details
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Sl.No	Name of The Course	Academic Session	Sanctioned Intake	No. Of Students Admitted	No. of Students Placed	Minimum Package	Maximum Package
1	CSE	2016-2020	60	17	6	1 lac/annum	3.5 lac/annum
2	ECE	2016-2020	60	3	0	na	na
3	EE	2016-2020	60	51	12	1.2 lac/annum	2.4 lac/annum
4	ME	2016-2020	60	64	9	1.2 lac/annum	1.8 lac/annum
5	AEIE	2016-2020	60	4	0	na	na
6	CE	2016-2020	60	72	11	1.44 lac/annum	1.8 lac/annum
1	CSE	2017-2021	60	6	3	1 lac/annum	3.5 lac/annum
2	ECE	2017-2021	60	2	0	na	na
3	EE	2017-2021	60	45	9	1.2 lac/annum	2.4 lac/annum
4	ME	2017-2021	60	58	11	1.2 lac/annum	1.8 lac/annum
5	CE	2017-2021	60	70	7	1.44 lac/annum	1.8 lac/annum
1	CSE	2018-2022	60	44	5	1 lac/annum	2.4 lac/annum
2	ECE	2018-2022	60	21	0	na	na
3	EE	2018-2022	60	34	8	1.2 lac/annum	2.4 lac/annum
4	ME	2018-2022	60	36	6	1.2 lac/annum	2.4 lac/annum
5	CE	2018-2022	60	36	8	1.44 lac/annum	1.8 lac/annum
<b>1</b>	<b>CSE</b>	<b>2019-2023</b>	<b>60</b>	<b>39</b>	<b>7</b>	<b>2.4 lac/annum</b>	<b>5 lac/annum</b>
<b>2</b>	<b>ECE</b>	<b>2019-2023</b>	<b>60</b>	<b>21</b>	<b>3</b>	<b>2.4 lac/annum</b>	<b>4.25 lac/annum</b>
<b>3</b>	<b>EE</b>	<b>2019-2023</b>	<b>60</b>	<b>45</b>	<b>7</b>	<b>2.4 lac/annum</b>	<b>4.25 lac/annum</b>
<b>4</b>	<b>ME</b>	<b>2019-2023</b>	<b>60</b>	<b>49</b>	<b>7</b>	<b>1.44 lac/annum</b>	<b>2.4 lac/annum</b>
<b>5</b>	<b>CE</b>	<b>2019-2023</b>	<b>60</b>	<b>41</b>	<b>3</b>	<b>3.4 lac/annum</b>	<b>5 lac/annum</b>



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पश्चिम बंगाल WEST BENGAL

31AB 982633

## MEMORANDUM OF UNDERSTANDING(MOU)

BETWEEN

**Dumkal Institute of Engineering & Technology**

&

**CodeSpeedy Technology Private Limited**



## **MEMORANDUM OF UNDERSTANDING**

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 8<sup>th</sup> day of – April – Two Thousand Nineteen (**08-04-2019**),

### **BETWEEN**

**Dumkal Institute of Engineering & Technology, Vill-Basantapur, PO-Basantapur, PS- Dumkal, Dist- Murshidabad, State- West Bengal, the First Party** represented herein by its **Prof.(Dr.)Md. Headayetullah (Principal)** (hereinafter referred as '**First Party**', the Institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

### **AND**

**Codespeedy Technology Private Limited, Vill- Keshabnagar PO- Cossimbazar, Near Vibekananda School, Berhampore, Dist-Murshidabad, WB, 742102, INDIA, the Second Party**, and represented herein by **Saruque Ahamed Mollick (Managing Director)**, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:
  - (i) **Dumkal Institute of Engineering and Technology**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;.
- E) **Codespeedy Technology Private Limited**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of *Information Technology* and related fields
- F) **Codespeedy Technology Private Limited**, the Second Party is promoted by **Saruque Ahamed Mollick**.
- G) Give related information, its branches, and dimensional information about the industry concerned with whom the MoU is sworn.

CodeSpeedy Technology Private Limited is an Information technology company that keep helping the learners and developers to learn computer programming. CodeSpeedy also provides coding solutions along with various IT services (web development, software development etc).

We also provide training and internship on various computer programming field like Java, Python, C++, PHP, AI etc.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1: CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

**CLAUSE 2: SCOPE OF THE MoU**

- 2.1 The budding graduates from the Institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.



- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of **Information Technology ( Web development, software development, Various programming languages like Java, Python, C++, PHP etc along with AI and Deep Learning).**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.

- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.10 There is no financial commitment on the part of the **Dumkal Institute of Engineering & Technology**, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

### **CLAUSE 3: INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

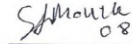
### **CLAUSE 4: VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Codespeedy Technology Private limited**, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Codespeedy Technology Private Limited**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

#### CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

  
08/04/2019  
\_\_\_\_\_  
First Party  
Principal  
Dumkal Institute of Engg. & Tech.  
P.O.- Basantapur, Pin-742406  
Dumkal, Dist- Murshidabad

  
08/04/2019  
\_\_\_\_\_  
Second Party  
CODESPEEDY TECHNOLOGY PRIVATE LIMITED


**DIRECTOR**

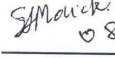
Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of Dumkal, Murshidabad.

**AGREED:**

For Dumkal Institute. Of Engineering & Technology

For Codespeedy Technology Pvt Ltd

  
08/04/2019  
Authorized Signatory  
Principal  
Dumkal Institute of Engg. & Tech.  
P.O.- Basantapur, Pin-742406  
Dumkal, Dist- Murshidabad

  
08/04/2019  
Authorized Signatory  
CODESPEEDY TECHNOLOGY PRIVATE LIMITED

DIRECTOR

Dumkal Institute of Engineering & Technology.	Codespeedy Technology Pvt Ltd
Vill+PO- Basantapur PS- Dumkal Dist- Murshidabad, WB, Pin- 742406	Vill. Keshabnagar P.O. Cossimbazar Near Vibekananda School Msd Berhampore Murshidabad Wb 742102 In.
Mobile : 9434531147	Mobile No. 8001007659
directordiet1@gmail.com	contact@codespeedy.com
www.besdiet.org	www.codespeedy.com

Witness1: Subhan Biswas  
8/4/19

Witness2: Faruk 8.4.19

Witness3: md Asik Ahmed

Witness4: Faruque Ahmed Mollick





अभिभवक पश्चिम बंगाल WEST BENGAL

31AB 982629

## MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

Dumkal Institute of Engineering &  
Technology  
&

Ardent Computech Private Limited



କ୍ରମିକ ନଂ ୫୭୯ ତାରିଖ ୨୭.୧୦.୨୨

ମୂଳା... ନାମ ସମ୍ପର୍କିତ ବିନିର୍ଦ୍ଧାରିତ ଭାବେ ନିଶ୍ଚିନିୟମିତ ନାମ ଦେଖିବାକୁ

ଗ୍ରାମ (୨୭.୧୦.୨୨) ବାମନପୁର

ଥାନା ୨୭.୧୦.୨୨

ସହାୟକ ଆଇନଜୀବୀ ନଂ ୧୭/୧୭/୨୨  
ସହାୟକ ଆଇନଜୀବୀ ଏବଂ ଆଇନ ଅଫିସର

## **MEMORANDUM OF UNDERSTANDING**

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 19<sup>th</sup> day of April, Two Thousand Nineteen (19-04-2019),

### **BETWEEN**

**Dumkal Institute of Engineering & Technology; Vill+PO- Basantapur; PS- Dumkal; Dist- Murshidabad; Pin- 742406; West Bengal, the First Party** represented herein by **Prof. (Dr.) Md. Headayetullah (Principal)** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors- in-office, administrators and assigns).

### **AND**

**Ardent Computech Private Limited, Module No. 132, SDF Building, Sector-V, Saltlake, Kolkata-700 091, the Second Party**, and represented herein by its Zonal/Divisional Head, **Indranil De Sarkar**, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors- in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as '**Parties**' and individually as '**Party**')

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:
  - (i) **Dumkal Institute of Engineering & Technology**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.
- E) **Ardent Computech Private Limited**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of *IT, ITES & Software Development & Training* and related fields.
- F) **Ardent Computech Private Limited**, the Second Party is promoted by **Indranil De Sarkar & Rajmohan De Sarkar; Module No. 132, SDF Building, Sector-V, Saltlake, Kolkata-700091** and **ARDENT COLLABORATIONS**, is an IT Education & Training division of **ARDENT COMPUTECH PVT. LTD.**, offering the latest, updated and comprehensive courses in the field of Information Technology from last 15 years. **ARDENT** has received prestigious ISO: 9001:2015 certificate from BIS, Govt. of India, for design, development & delivery of Software Education & Training.
- G) The brand **ARDENT**, by virtue of its empanelment with companies like IBM, WIPRO, HCL, Aptech, Thomson Financial, CTS, Accenture, HP, Iblex, Ensim India etc., has now become a tested and trusted Corporate Training provider amongst the best in corporate throughout the country.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1 : CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching/training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

**CLAUSE 2 : SCOPE OF THE MoU**

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance<sup>8</sup> their skills and knowledge.



- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments/requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs/Workshops/Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of *IT, ITES & Software Development & Training.*
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.

- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein.
- 2.10 There is no financial commitment on the part of the Dumkal Institute of Engineering and Technology, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

### **CLAUSE 3: INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

### **CLAUSE 4: VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Ardent Computech Private Limited**, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Ardent Computech Private Limited**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

## CLAUSE 5 : RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

 19/04/2019  
\_\_\_\_\_  
First Party  
Principal  
Dumkal Institute of Engg. & Tech  
P.O.- Basantapur, Pin-742406  
Dumkal, Dist.- Murshidabad


Andranil De Sarkar  
\_\_\_\_\_  
Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Dumkal, Murshidabad.**

**AGREED:**

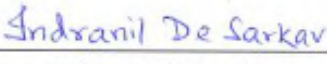
For Dumkal Institute of Engineering & Technology

For Ardent Computech Private Limited

  
19/04/2019  
Authorized Signatory

Principal  
Dumkal Institute of Engg. & Tech  
P.O.- Basantapur, Pin- 742406  
Dumkal, Dist. Murshidabad



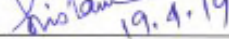
  
Authorized Signatory




Dumkal Institute of Engineering & Technology.	Ardent Computech Private Limited
Vill+PO- Basantapur, PS- Dumkal, Dist- Murshidabad, Pin- 742406	Module No. 132, SDF Building, Sector-V, Saltlake, Kolkata-700 091
Mobile: 9434531147	9674489000
directordiet1@gmail.com	indranildesarkar@ardentcollaborations.com
www.besdiet.org	www.ardentcollaborations.com

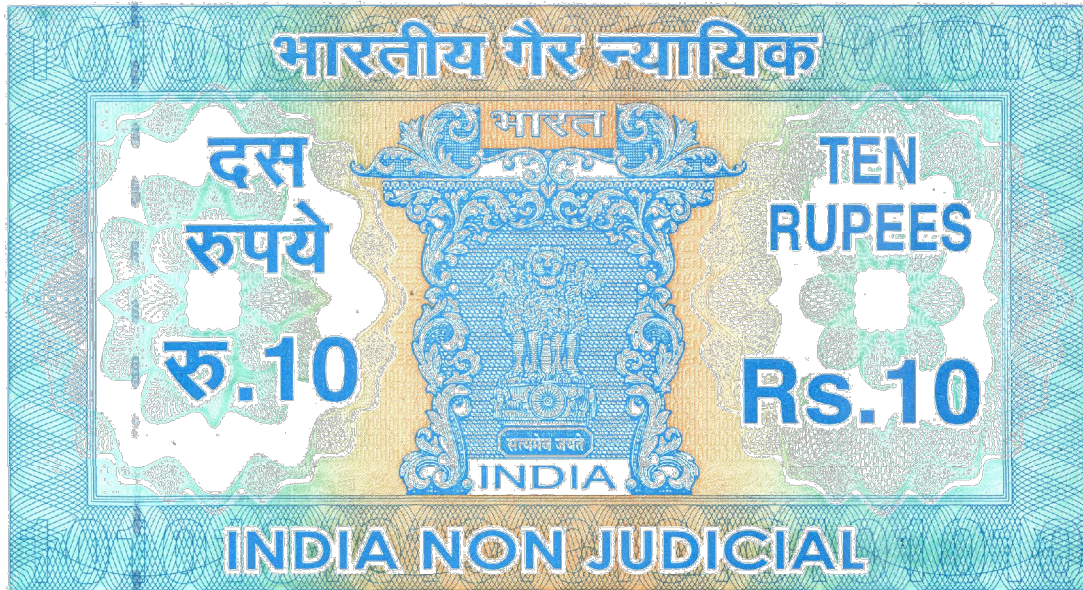
Witness1: 

Witness2: 

Witness3:  19.4.19

Witness4: 





पश्चिम बंगाल WEST BENGAL

31AB 982630

## MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

Dumkal Institute of Engineering & Technology

&

High-Technext Engineering & Telecom Private Limited

ক্রমিক নং ১০৬ তারিখ ১৯ ৬ ১৩

মূল্য ১০ মাস

গ্রাম বসন্তপুর

থানা Dispur

স্বাক্ষর (সাক্ষর আলী) লাম্বা ১২/১৩  
কেন্দ্রীয় ডেপুটি কমিটি এস আর অফিস

## **MEMORANDUM OF UNDERSTANDING**

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 3<sup>rd</sup> day of May Two Thousand Nineteen **(03-05-2019)**.

### **BETWEEN**

**Dumkal Institute of Engineering & Technology, Vill+PO- Basantapur, PS-Dumkal, Murshidabad, West Bengal, the First Party** represented herein by **Prof. (Dr.) Md. Headayetullah (Principal)** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors-in-office, administrators and assigns).

### **AND**

**High-Technext Engineering & Telecom Private Limited, Block- EN-13, [N.I.A.S BUILDING ] Antariksh Tech Park, Saltlake Sec-V, Kolkata-700091, West Bengal, the Second Party**, and represented herein by **Mr. MONOJIT CHAKRABORTY (Managing Director)**, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors-in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as '**Parties**' and individually as '**Party**')  
©

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:
  - (i) **Dumkal Institute of Engineering and Technology**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.
- E) **High-technext Engineering & Telecom Private Limited**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of Telecom Services (RF, EMF, LOS UBR BTS I&C 3G,4G) and related fields.
- F) **High-technext Engineering & Telecom Private Limited**, the Second Party is promoted by **Mr. MONOJIT CHAKRABORTY**.
- G) High-technext Engineering & Telecom Pvt. Ltd. is one of the leading companies, who offers an array of world-class products and solutions to meet all hardware requirements of telecom manufacturers, telecom service providers and telecom users. High-technext Engineering & Telecom Pvt. Ltd. combines expertise with experience to deliver state-of-art products and solutions spanning the wide spectrum of wireless Telecommunications. High-technext Engineering & Telecom Pvt. Ltd. provides exceptional quality works with the help of professional personals for a long time.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1: CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching/training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

**CLAUSE 2: SCOPE OF THE MoU**

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.



- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching/training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments/requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs/Workshops/Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE Internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of *Telecom services (RF, EMF, LOS UBR BTS I&C 3G, 4G)* and related fields.
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein.
- 2.10 There is no financial commitment on the part of the **Dumkal Institute of Engineering & Technology**, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

### **CLAUSE 3: INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

### **CLAUSE 4: VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **High-technext Engineering & Telecom Private Limited**, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **High-technext Engineering & Telecom Private Limited**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU.
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

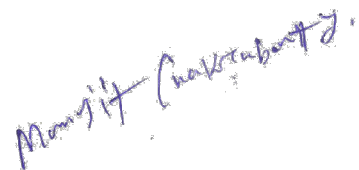
## CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.



First Party  
Principal

Dumkal Institute of Engg. & Tech.  
P.O.-Basantapur, Ph-748446  
Dumkal, Dist- Murshidabad



Second Party

IGH-TECHNEX ENGINEERING & TELECOM PVT. LTD.  


Director

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of Dumkal, Murshidabad.



**AGREED:**

For Dumkal Institute of Engineering & Technology

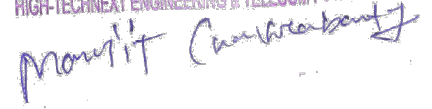


Authorized Signatory  
**Principal**  
Dumkal Institute of Engg. & Tech.  
P.O.- Basantapur, Pin-742406  
Dumkal, Dist- Murshidabad

For High-technext Engineering & Telecom

Private Limited

HIGH-TECHNEXT ENGINEERING & TELECOM PVT. L



Authorized Signatory

Dumkal Inst. Of Engineering & Technology	High-technext Engineering & Telecom Private Limited
Vill+PO-Basantapur, PS- Dumkal, Dist- Murshidabad, West Bengal, Pin- 742406, India.	Block- EN-13, [N.I.A.S BUILDING] Antariksh Tech Park, Saltlake Sec-V, Kolkata-700091, West Bengal, India.
Mobile: 9434531147	Contact Details-7003111616/8373059589
directordiet1@gmail.com	admin@hitechnext.com
www.besdiet.org	www.hitechnext.com

Witness1: 

Witness2: 

Witness3: 

Witness4: 



अखिल भारतीय तकनीकी शिक्षा परिषद्  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(भारत सरकार का एक संवैधानिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

F.No.: 750-80-027(NDEG)/ET/2001  
Date : 28.06.2001

Secretary  
Deptt. of Tech. Edu. & Trg.  
Govt. of West Bengal.  
Bikash Bhawan, 6<sup>th</sup> Floor, East Block.  
Salt Lake City, Kolkata - 700 091.

Sub: AICTE approval to Basantapur-Educational Trust, P.O. , P.S.& Sub-Div, Dumkal, Dist-Murshidabad, WB - 742303, for establishment of Dumkal Instt. Of Engg. & Tech., Mouza Ramna, Etbar Nagar, Basantapur, Mursidabad - 742 303, WB.

Sir,

I am directed to state that based on the consultations with the concerned State Govt., the concerned affiliating body and on recommendations of the Regional Committee, the Expert Committee constituted by the Council and as per the provisions of AICTE Act and Regulations, the All India Council for Technical Education (AICTE), is pleased to accord approval to Basantapur-Educational Trust, P.O., P.S.& Sub-Div, Dumkal, Dist-Murshidabad, WB - 742303, for establishment of Dumkal Instt. Of Engg. & Tech., Mouza Ramna, Etbar Nagar, Basantapur, Mursidabad - 742 303, WB. for the academic year 2001-2002, for course(s) and intake as given below with specific condition that admission shall be made through the Central Counseling by the Government of West Bengal only. This approval is valid only for the academic years 2001-2002 and cannot be extended for the next year 2002-2003. In the event the establishment of the institutions having not been operationalised, this approval is not valid unless AICTE specifically revalidates.

COURSE(S)	INTAKE	LEVEL	DURATION (YEARS)	PERIOD OF APPROVAL
Comp. Sc. & Engg.	60	Degree	4 YEARS	2001-2002
Information Technology	60	Degree	4 YEARS	2001-2002
Electronics & Comm. Engg.	60	Degree	4 YEARS	2001-2002
Electronics & Instrumentation Engg.	60	Degree	4 YEARS	2001-2002
Total	240			

This approval has been accorded subject to fulfillment of general conditions and as per the Norms and Standards of the AICTE, and also specific conditions(if any, given).

The attention of the management is drawn to the fact that the approval given now, is only for one academic session before the end of which an expert committee shall visit to assess if the norms and standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.05.1994 based on the Hon'ble Supreme Court Judgment dated 04.02.1993 with regard to W.P.(C) No. 607 of 1992 in the case of Unni Krishnan JP and other etc. V.s. State Government of Andhra Pradesh and others etc. and later judgments. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action by the institute contrary to any provisions laid down by the Council and concerned State Government shall make it liable for actions.

*(Signature)*  
Comd.

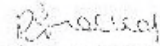
इंदिरा गांधी खेल परिसर, इंदिरा नगर, नई दिल्ली - 110 062  
Indira Gandhi Sports Complex, I.P. Estate, New Delhi - 110 062  
आ.सं. 10/10/2001

In the event of infringement/contravention or non-compliance of the provisions of AICTE Regulations, Guidelines or the norms and standards as prescribed by the AICTE, the Council shall take further action to withdraw approval, and the liability arising out of such withdrawal of approval will be solely that of Management/Trust/Society and/or Institution.

The Council may inspect/ visit the Institution any time it may deem fit to verify the progress/ compliance.

You are requested to kindly monitor the progress made by this institution towards fulfilling the norms and standards prescribed by the Council and keep the concerned Regional Office and AICTE, New Delhi informed.

Yours faithfully,



(Prof. R.S. Ghosh)

Copy to :

1. The Registrar, AICTE, East. M. Regional Office, A.I.C.T.E. Institute of Leather Technology Campus, Salt Lake City Sector - III, Kolkata - 700 091.

He is requested to monitor compliance with the Norms and Standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same.

He is also requested to ensure the receipt of notarized undertaking as specified by the Council from the institution/management concerned within the stipulate time frame.

2. The Director of Technical Education, Govt. of West Bengal, Bikash Bhavan, 10<sup>th</sup> Floor, East Block, Salt Lake City Kolkata - 700 091.

3. The Registrar, University of Kalyani, P.O. Kalyani, Distt. Nadia - 741 235, WB  
He is requested to complete the process of affiliation for facilitating admissions.

4. The Principal, Durnkal Instt. Of Engg. & Tech., Mouza Ramna, Etbar Nagar, Basantapur, Mursidabad - 742 303, WB.

(i) The institution should submit a notarized undertaking on non-judicial stamp paper as per format given in Annexure I to the concerned Regional Office, AICTE with a copy to the Headquarters, AICTE, New Delhi within one month from the date of receipt of this approval letter.

(ii) The institution/management should also submit a notarized undertaking from the Governing Body to the concerned Regional Office, AICTE with a copy to Headquarters, AICTE, New Delhi and to the concerned State Government, that all the infrastructural and instructional facilities shall be in place as per the norms of AICTE prior to the admissions of any student for the academic year 2001-2002.

5. Guard File

**Specific Conditions:**

1. H.O.D. and Staff / Faculty to be appointed immediately as per the AICTE norms.
2. Construction work to be completed before the commencement of the academic session.
3. More computers to be procured and installed.
4. Library books to be procured and library space to be separated.
5. Internet facilities are to be provided.
6. Physics and electronics labs are partially equipped and needs additional equipments before commencement of the classes.
7. Workshop needs bigger area.

The deficiencies mentioned above should be complied by 15<sup>th</sup> July 2001 and same to be intimated to Regional Office, AICTE, Kolkata.

*[Signature]*





**APPROVAL PROCESS 2022-23**

**Extension of Approval (EoA)**

F.No. Eastern/1-10974684489/2022/EoA

Date: 02-Jun-2022

To,

The Secretary (Technical Education)  
Govt. of West Bengal,  
Bikash Bhawan, Room No. 602,  
6th Floor Salt Lake, Kolkata-700091

**Sub: Extension of Approval for the Academic Year 2022-23**

Ref: Application of the Institution for Extension of Approval for the Academic Year 2022-23

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2022 Notified on 4th February, 2022 and amended on 24th February 2022 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

<b>Permanent Id</b>	1-2063201	<b>Application Id</b>	1-10974684489
<b>Name of the Institution</b>	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY	<b>Name of the Society/Trust</b>	BASANTAPUR EDUCATION SOCIETY
<b>Institution Address</b>	VILLAGE BASANTAPUR PO BASANTAPUR PS DUMKAL DIST MURSHIDABAD PIN 742406 WEST BENGAL INDIA, KOLKATA, MURSHIDABAD, West Bengal, 742406	<b>Society/Trust Address</b>	PO+ VILL BASANTAPUR DIST MURSHIDABAD WEST BENGAL, BASANTAPUR, MURSHID ABAD, West Bengal, 742406
<b>Institution Type</b>	Private-Self Financing	<b>Region</b>	Eastern
<b>Year of Establishment</b>	2001		

**To conduct following Courses with the Intake indicated below for the Academic Year 2022-23**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2021-22	Intake Approved for 2022-23	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE & ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	NA	NA

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2021-22	Intake Approved for 2022-23	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	NA	NA
POST GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	18	18	NA	NA

**It is mandatory to comply with all the essential requirements as given in APH 2022-23 (Appendix 6)**

#### **Important Instructions**

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC (NCL)/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.
2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2022-23 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE beginning with the Academic Year 2022-23
3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as Approval Process Handbook and provisions made in AICTE Regulation notified from time to time.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

**Pharmacy Institute:** In compliance with the order dated 05.03.2020 passed by the Hon'ble Supreme Court of India in Transferred Petitions (CIVIL) No.87-101 of 2014, for the existing institutions offering courses in Pharmacy Programme, approval of Pharmacy Council of India (PCI) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per the respective regulatory body (PCI).

In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by PCI, the approval of PCI shall prevail.

**Architecture Institute:** In compliance with the order dated 08.11.2019 passed by the Hon'ble Supreme Court of India CA No.364/ 2005, for the existing Institutions offering Courses in Architecture Programme, approval by the Council of Architecture (CoA) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per respective regulatory body (CoA). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by CoA, the approval of CoA shall prevail.

**Deemed to be University:** Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.

**Prof.Rajive Kumar**  
**Member Secretary, AICTE**

Copy to:

1. **The Director Of Technical Education\*\***, West Bengal
2. **The Registrar\*\***,  
Maulana Abul Kalam Azad University Of Technology, West Bengal
3. **The Principal / Director**,  
DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY  
Village Basantapur  
Po Basantapur  
Ps Dumkal  
Dist Murshidabad  
Pin 742406  
West Bengal  
India,  
Kolkata, Murshidabad,  
West Bengal, 742406
4. **The Secretary / Chairman**,  
PO+ VILL BASANTAPUR  
DIST MURSHIDABAD  
WEST BENGAL  
BASANTAPUR, MURSHIDABAD  
West Bengal, 742406
5. **The Regional Officer**,  
All India Council for Technical Education  
College of Leather Technology Campus  
Block LB, Sector III, Salt Lake City  
Kolkata - 700 096, West Bengal
6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

*This is a computer generated Statement. No signature Required*





# All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



## APPROVAL PROCESS 2024-25

### Extension of Approval (EoA)

F.No. Eastern/1-43664398188/2024/EOA

Date of Approval: 23-Mar-2024

To,

The Secretary (Technical education)  
Govt. of West Bengal,  
Bikash Bhawan, Room No. 602,  
6th Floor Salt Lake, Kolkata-700091

**Sub: Extension of Approval for the Academic Year 2024-25**

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2024-25

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education), Powers delegated in AICTE ACT 1987, (No 52 of 1987) chapter II - u/s 2(g) to regulate Technical and subsequent Regulations of AICTE, I am directed to convey the approval to:

Permanent Id	1-2063201	Application Id	1-43664398188
Name of the Institution	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY	Name of the Society/Trust	BASANTAPUR EDUCATION SOCIETY
Institution Address	VILLAGE BASANTAPUR PO BASANTAPUR PS DUMKAL DIST MURSHIDABAD PIN 742406 WEST BENGAL INDIA, KOLKATA, MURSHIDABAD, West Bengal, 742406	Society/Trust Address	PO+ VILL BASANTAPUR DIST MURSHIDABAD WEST BENGAL, BASANTAPUR, MURSHID ABAD, West Bengal, 742406
Institution Type	Private-Self Financing	Region	Eastern
Year of Establishment	2001		

**To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2024-25**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE & ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	No	No

*Mazimuddin Shaik*  
Vice Chairman  
Basantapur Education Society  
Basantapur-742406, Murshidabad

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Date: 2024.03.11 20:45:17 +

Application No:1-43664398188

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Page 1 of 4

Letter Printed On:1 May 2024

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	60	60	No	No
POST GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Maulana Abul Kalam Azad University of Technology, West Bengal	18	18	No	No

All AICTE approved Institutions are empowered to nurture ecosystems for Skilling (through Vocational courses) via making effective use of existing infrastructure facilities and human resources.

**It is mandatory to comply with all the essential requirements as given in APH 2024-25 to 2027 (Chapter-VI)**

*Nazimuddin Shaik*  
Vice Chairman  
Basantapur Education Society  
Basantapur-742406, Murshidabad

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### Important Instructions

1. As per mandatory Disclosure of APH 2024-27(Annexure-18, page180) Institutions must disclose the following information submitted to Council at the Prominent location on its website.
  - i. Department wise availability of Infrastructure along with approved courses and intake approved by the Council.
  - ii. Faculty details: Department wise: Name& Designation of the faculty members/teaching staff along with their qualification, tenure of service in your organization, total experience, Institution should also disclose Student Faculty Ratio, Cadre Ratio.
  - iii. Additionally Audited Financial Statements for last 3 Financial years.
2. Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the Programmes. The concerned State Government/ UT Admission authority shall decide Modalities of Admission.
3. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2024-25 to 2027 for the Total Approved Intake.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the **Executive Council / General Council as available on the record of AICTE shall be final and binding.**
5. All AICTE institutions are highly encouraged to get NBA/NAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.
6. Deemed to be University: Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.
7. AICTE Approved Institutes are encouraged to utilize SWAYAM PLUS Courses up-to 40%
8. Internship is mandatory for all admitted students.
9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:
  - a. Parakh: Student Gap analysis portal bases services.
  - b. Students Scholarship schemes like Pragati, Saksham, Swanath, ADF, etc.
  - c. Course in Indian Languages.
  - d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.
  - e. Augmenting Utilization of Research Assets (AURA).
  - f. Smart India Hackathon: World's largest Open Innovation Platform.

*Nazimuddin Shaik*  
Vice Chairman  
Basantapur Education Society  
Basantapur-742406, Murshidabad

Prof.Rajive Kumar  
Member Secretary, AICTE

Copy to:

1. The Director Of Technical Education\*\*, West Bengal
2. The Registrar\*\*,  
Maulana Abul Kalam Azad University Of Technology, West Bengal
3. The Principal / Director,  
DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY  
Village Basantapur

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Po Basantapur  
Ps Dumkal  
Dist Murshidabad  
Pin 742406  
West Bengal  
India,  
Kolkata, Murshidabad,  
West Bengal, 742406

4. **The Secretary / Chairman,**  
PO+ VILL BASANTAPUR  
DIST MURSHIDABAD  
WEST BENGAL  
BASANTAPUR, MURSHIDABAD  
West Bengal, 742406

5. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, a consolidated list of Approved Institutions(bulk) may be downloaded from the respective login id's.

*This is a computer generated Statement. No signature Required*

*Nazimuddin Shaik*  
Vice Chairman  
Basantapur Education Society  
Basantapur-742406, Murshidabad

MAHAMMAD  
HEADAYETULLAH

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Date: 2024.05.11 20:42:26 +05'30

**M. RAHAMAN & CO.**  
Chartered Accountants

23, Marquis Street (Room No.111)  
Kolkata -700 016  
Mobile : 9331119516  
E-mail : ca.rahaman90@gmail.com

### AUDITOR'S REPORT

We have examined the Balance Sheet as at 31<sup>st</sup> March , 2020 and the Income and Expenditure Account for the year ended on that date , attached herewith of Dumkal Institute of Engineering and Technology , Basantapur , P.S. Dumkal , Dist . Murshidabad , West Bengal .

We certify that the Balance Sheet and the Income & Expenditure Account are in agreement with the Books of Accounts maintained at the office premises of the society at Basantapur , Murshidabad, West Bengal.

We have obtained all the information and explanation , which to the best of our knowledge and belief were necessary for the purpose of the Audit .

In our opinion and to the best of our information and according to the explanation given to us the said accounts gives a true and fair view :-

- i) In the case of Balance Sheet , of the state of affairs as at 31.03.2020
- ii) In the case of Income & Expenditure Account , of the surplus/deficit for the year ended on that date .

Dated- 27 - 11 - 2020

Place : Kolkata,



For M. RAHAMAN & CO.  
Chartered Accountants  
**Mijanur Rahman**  
FCA  
Chartered Accountant  
M.No.-55162

**DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**BASANTAPUR, DUMKAL, MURSHIDABAD**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2019-2020**

	Schedule	Current Year				Previous Year
		Unrestricted Funds			Restricted Funds	Total
		Corpus	Designated fund	General fund		
<b>INCOME</b>						
Academic Receipts				26298194		30144551
Grants & Donations						
Income from bank interest				300193		319975
Other incomes				457300		274550
<b>TOTAL(A)</b>				27055687	0	27055687
<b>EXPENDITURE</b>						
Staff Payments & Benefits				20770036		24077990
Academic Expenses				963141		2706546
Administrative and General Expenses				826994		1102618
Inspection & Administration						95000
Repairs & maintenance				290182		220548
Finance Costs				66246		50201
Renewal & Affiliation				257500		212500
PROVISION FOR DEP						12394130
<b>TOTAL (B)</b>				23174099	0	23174099
Balance being excess of Income over Expenditure (A-B)						
					3881588	-10120457
Balance being Surplus (Deficit) Carried to General Fund						



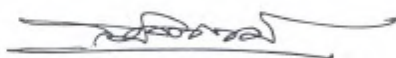
Mijanur Rahaman  
FCA  
Chartered Accountant  
M.No.-55162

*[Handwritten signature]*



**DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**Basantapur, Dumkal, Murshidabad.**  
**Balance Sheet as on 31.03.2020**

SOURCES OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
<u>UNRESTRICTED FUND</u>			
CORPUS			
GENERAL FUND		3881588.00	
DESIGNATED FUND			
<u>RESTRICTED FUNDS</u>			
LOANS / BORROWINGS			
SECURED			
UNSECURED			990313
<u>CURRENT LIABILITIES &amp; PROVISION</u>			
PROVISION FOR DEPRECIATION		143867599	143867599
Cautions Money		3078802	3736252
Creditors		1283897	1363392
Others Liabilities		4310160	4390694
Short Payment of Salary		613815	409420
<b>TOTAL</b>		<b>157035861.00</b>	<b>154757670.00</b>
<u>APPLICATION OF FUNDS</u>			
<u>FIXED ASSETS</u>			
TRANSIBLE:			
Land & Building		85302256.00	85302256.00
Furniture & Fixture		6035524.00	6035524.00
Books		6800012.00	6800012.00
Laboratory goods		26637694.00	26637694.00
Photocopier		233962.00	233962.00
Computer		16386809.00	16339020.00
Power System		2694159.00	2694159.00
General Facilities		4104059.00	4104059.00
A.C.Machine		437540.00	437540.00
Workshop Equipment		2482350.00	2482350.00
Refrigerator		17000.00	17000.00
INTRANSIBLE			
Software		1903444.00	1903444.00
<b>TOTAL</b>		<b>1903444.00</b>	<b>1903444.00</b>
<u>CAPITAL WORK IN PROGRESS</u>			
<u>INVESTMENTS</u>			
LONG TERM			
SHORT TERM			
<u>CURRENT ASSETS</u>			
LOAN, ADVANCE & DEPOSITS			
Advance to Creditors		66292	79900
Cash at bank:			
SBI 1174288603		191682	82436.00
BOB 29420100000517		525780	350861.00
BOB 29420100000506		3045079	1154901.00
UBI 1302010102143		151060	47380.00
BOB 29420100005031		21159	55172.00
Cash in hand			
<b>TOTAL</b>		<b>157035861.00</b>	<b>154757670.00</b>





Mijanur Rahaman  
**FCA**  
Chartered Accountant  
M.No.-55162



## M.RAHAMAN & CO.

Chartered Accountants

23, Marquis Street (Room No. 111)  
Kolkata – 700016  
Mobile: 9331119516  
E-mail: [ca.rahaman90@gmail.com](mailto:ca.rahaman90@gmail.com)

### AUDITOR'S REPORT

We have examined the balance Sheet as at 31<sup>st</sup> March, 2021 and the Income and Expenditure Account for the year ended on that date, attached herewith of DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY, Basantapur, P.S. Domkal, Dist. Murshidabad, West Bengal.

We certify that the Balance Sheet and Income & Expenditure Account are in agreement with the Books of Accounts maintained at the office premises of the society at Basantapur, Murshidabad, West Bengal.

We have obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of the Audit.

In our opinion and to the best of our information and according to the explanation given to us the said accounts gives a true and fair view:-

- i) In the case of Balance Sheet, of the state of affairs as at 31.03.2021
- ii) In the case of Income & Expenditure Account of the surplus/deficit for the year ended on that date.

Date: 23.09.2021  
Place: Kolkata.



*[Signature]*  
For M.RAHAMAN & CO.  
Chartered Accountants  
UDIN: 21055162AAAABV8498

**Mijanur Rahaman**  
FCA  
Chartered Accountant  
M. No.- 55162

**DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**BASANTAPUR, DUMKAL, MURSHIDABAD**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2020-2021**

	Schedule	Current Year				Previous Year
		Unrestricted Funds		Restricted Funds	Total	Total
		Corpus	Designated fund	General fund		
<b>INCOME</b>						
Academic Receipts				16664288		26298194
Grants & Donations				196041		300193
Income from bank interest				135004		457300
Other incomes						
<b>TOTAL(A)</b>				16995333	0	16995333
<b>EXPENDITURE</b>						
Staff Payments & Benefits				13777468		20770038
Academic Expenses				89810		963141
Administrative and General Expenses				274232		826994
Inspection & Administration				48000		
Repairs & maintenance				46475		290182
Finance Costs				14043		66246
Renewal & Affiliation				209500		257500
PROVISION FOR DEP						
<b>TOTAL (B)</b>				14459528	0	14459528
Balance being excess of Income over Expenditure (A-B)						2535805
Balance being Surplus (Deficit) Carried to General Fund						3881588



*M. Rahaman*  
**Mijanur Rahaman**  
**FCA**  
**Chartered Accountant**  
**M. No. - 55162**


# DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

Basantapur, Dumkal, Murshidabad.

Balance Sheet as on 31.03.2021

SOURCES OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
<u>UNRESTRICTED FUND</u>			
CORPUS			
GENERAL FUND		6417393.00	3881588.00
DESIGNATED FUND			
<u>RESTRICTED FUNDS</u>			
LOANS / BORROWINGS			
SECURED			
UNSECURED			
<u>CURRENT LIABILITIES &amp; PROVISION</u>			
PROVISION FOR DEPRECIATION		143867599	143867599
Caution Money		3592252	3078802
Creditors		1304432	1283897
Others Liabilities		4357997	4310160
E.S.I Contribution		613815	613815
<b>TOTAL</b>		<b>160153488.00</b>	<b>157035861.00</b>
<u>APPLICATION OF FUNDS</u>			
<u>FIXED ASSETS</u>			
TRANSIBLE:			
Land & Building		85302256.00	85302256.00
Furniture & Fixture		6029624.00	6035524.00
Books		6800012.00	6800012.00
Laboratory goods		26637694.00	26637694.00
Photocopier		233962.00	233962.00
Computer		16552761.00	16386809.00
Power System		2694159.00	2694159.00
General Facilities		4123939.00	4104059.00
A.C.Machine		437540.00	437540.00
Workshop Equipment		2482350.00	2482350.00
Refrigerator		17000.00	17000.00
INTRANSIBLE:			
Software		1903444.00	1903444.00
<u>INVESTMENTS</u>			
LONG TERM			
SHORT TERM			
<u>CURRENT ASSETS</u>			
LOAN, ADVANCE & DEPOSITS			
Loan to BES		4399625	
Advance to Creditors		66292	66292
Cash at bank:			
SBI 1174288603		830482	191682
BOB 29420100000517		624178	525780
BOB 29420100000506		859942	3045079
UBI 1302010102143		155842	151060
BOB 294201000005031		2386	21159
Cash in hand			
<b>TOTAL</b>		<b>160153488.00</b>	<b>157035861.00</b>



  
**Mijanur Rahman**  
**FCA**  
 Chartered Accountant  
 M. No. - 55162

**AUDITOR'S REPORT**

We have examined the Balance Sheet as at 31<sup>st</sup> March, 2022 and the Income and Expenditure Account for the year ended on that date, attached herewith of Dumkal Institute of Engineering and Technology, Basantapur, P.S. Dumkal, Dist. Murshidabad, West Bengal.

We certify that the Balance Sheet and the Income & Expenditure Account are in agreement with the Books of Accounts maintained at the office premises of the society at Basantapur, Murshidabad, West Bengal.

We have obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of the Audit.

In our opinion and to the best of our information and according to the explanation given to us the said accounts gives a true and fair view :-

- i) In the case of Balance Sheet, of the state of affairs as at 31.03.2022
- ii) In the case of Income & Expenditure Account, of the surplus/deficit for the year ended on that date.

Dated- 20 - 05 - 2022  
Place : Kolkata.



For M. RAHAMAN & CO.  
Chartered Accountants

**UDIN : 22055162AKDSFN1292**

**Mijanur Rahman**  
FCA  
Chartered Accountant  
M. No. - 55162



**DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**BASANTAPUR, DUMKAL, MURSHIDABAD**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2021-2022**

	Schedule	Current Year				Previous Year
		Unrestricted Funds		Restricted Funds	Total	Total
		Corpus	Designated fund	General fund		
<b>INCOME</b>						
Academic Receipts				21630195		16664288
Grants & Donations				95376		196041
Income from bank interest				223507		135004
Other incomes						
<b>TOTAL(A)</b>				21949078	0	21949078
<b>EXPENDITURE</b>						
Staff Payments & Benefits				15551771		13777468
Academic Expenses				52945		89810
Administrative and General Expenses				672390		274232
Inspection & Administration				63000		48000
Repairs & maintenance				155952		46475
Finance Costs				3946		14043
Renewal & Affiliation				144500		209500
PROVISION FOR DEP						
<b>TOTAL (B)</b>				16644504	0	16644504
Balance being excess of Income over Expenditure (A-B)					5304574	2535805
Balance being Surplus (Deficit) Carried to General Fund						

UDIN :22055162AKDSFN1292



COMB  
**Mijanur Rahman**  
 FCA  
 Chartered Accountant  
 M. No.- 55162

# DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

Basantapur, Dumkal, Murshidabad.

Balance Sheet as on 31.03.2022

SOURCES OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
<u>UNRESTRICTED FUND</u>			
CORPUS			
GENERAL FUND		11721967.00	6417393.00
DESIGNATED FUND			
<u>RESTRICTED FUNDS</u>			
LOANS / BORROWINGS			
SECURED			
UNSECURED			
<u>CURRENT LIABILITIES &amp; PROVISION</u>			
PROVISION FOR DEPRECIATION		143867599	143867599
Caution Money		3585752	3592252
Creditors		1309058	1304432
Others Liabilities		6031422	4357997
E.S.I Contribution			613815
<b>TOTAL</b>		<b>166515798.00</b>	<b>160153488.00</b>
<u>APPLICATION OF FUNDS</u>			
<u>FIXED ASSETS</u>			
TRANSIBLE:			
Land & Building		85302256.00	85302256.00
Furniture & Fixture		6029624.00	6029624.00
Books		6800012.00	6800012.00
Laboratory goods		26637694.00	26637694.00
Photocopier		233962.00	233962.00
Computer		16614936.00	16552761.00
Power System		2694159.00	2694159.00
General Facilities		4123939.00	4123939.00
A.C.Machine		437540.00	437540.00
Workshop Equipment		2482350.00	2482350.00
Refrigerator		17000.00	17000.00
INTRANSIBLE:			
Software		1903444.00	1903444.00
<u>INVESTMENTS</u>			
LONG TERM			
SHORT TERM			
<u>CURRENT ASSETS</u>			
LOAN, ADVANCE & DEPOSITS			
Loan to BES		11460789	4399625
Advance to Creditors		66292	66292
Cash at bank:			
SBI 1174288603		1059240	830482
BOB 29420100000517		252372	624178
BOB 29420100000506		88805	859942
UBI 1302010102143		160446	155842
BOB 294201000005031		150938	2386
Cash in hand			
<b>TOTAL</b>		<b>166515798.00</b>	<b>160153488.00</b>

UDIN :22055162AKDSFN1292



*M. Rahman*  
Mijanur Rahaman  
FCA  
Chartered Accountant  
M. No. - 55162