

HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT
M. Tech 1st Year 2nd Semester **SESSION: 2020-2021**

Day	10-10:50	11-11:50	12-12:50	1-2 BREAK	2-2:50	3-3:50	4-4:50
Mon	AEIE5202 AP/ICT 101	AEIE5241 SG/ICT101	AEIE5231 MC/ICT101			AEIE5293 SG+DC/ICT 101	
Tue	AEIE5241 SG/ICT 101	AEIE5231 MC/ICT 101	AEIE5243 DC/ICT 101		AEIE5293 SG+AMS/ICT 101	AEIE5293 SG+AMS/ICT 101	AEIE5293 SG+AMS/ICT 101
Wed	AEIE5243 DC/ICT 101		AEIE5202 AP/ICT 101		AEIE5201 SAM/CB201	AEIE5201 SAM/CB201	
Thurs	AEIE5241 SG/ICT 101	AEIE5231 MC/ICT 101	AEIE5201 SAM/ICT 101				
Fri		AEIE5202 AP/ICT 101	AEIE5243 MC/ICT 101				

To be effective from April 5, 2021

A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.
Students should target 100% attendance.

Member

HOD

Principal

HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT
M. Tech 1st Year 2nd Semester **SESSION: 2020-2021**

INITIALS	FULLNAME	DEPARTMENT
<i>MC</i>	Prof. (Dr.) Madhurima Chattopadhyay	Applied Electronics and Instrumentation Engineering
<i>SG</i>	Prof. (Dr.) Shantanu Ghorai	
<i>AP</i>	Prof. (Dr.) Arabinda Kumar Pal	
<i>SAM</i>	Prof. Samiul Alam	
<i>DC</i>	Prof. Debjyoti Chowdhury	
<i>AMS</i>	Prof. Arindam Sarkar	

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TIME TABLE
APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT
M. Tech 1st Year 2nd Semester **SESSION: 2020-2021**

M. Tech. in Applied Electronics and Instrumentation Engineering (AEIE)
Course Structure

1st Year 2nd Semester Syllabus:

Course Type	Course Code	Course Name	Contact Hrs Per Week				Credit Points
			L	T	P	Total	
Core 3	AEIE5201	Embedded Systems	3	0	0	3	3
Core 4	AEIE5202	Process Control System Design	3	0	0	3	3
Prog. Specific Elective	AEIE5231/	Elective-III (1) Micro Sensor Science and Technology (2) Advanced Power Electronics (3) Instrumental Methods of Analysis	3	0	0	3	3
	AEIE5232/						
	AEIE5233/						
Prog. Specific Elective	AEIE5241/	Elective-IV (1) Digital Image Processing (2) Statistical and Bio-signal Processing (3) Industrial Internet of Things	3	0	0	3	3
	AEIE5242/						
	AEIE5243/						
LAB	AEIE5251	Embedded Systems LAB	0	0	4	4	2
	AEIE5252	Process Control System Design LAB	0	0	4	4	2
	AEIE5293	Term Paper and Seminar	0	0	4	4	2
Aud 2		Audit course 2: Any one subject from Elective III or Elective IV	2	0	0	2	0
Total			16	0	8	26	18

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TIME TABLE

RENEWABLE ENERGY

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	L/REEN 5201/AG/CB 315	L/REEN 5245/AM/CB 315	L/REEN 5241/AG/CB 315	LUNCH BREAK	Remedial	L/REEN 5245/DS/CB 315	Remedial
TUE	Remedial	L/REEN 5202/SKS/CB 315	L/REEN 5245/JD/CB 315		L/REEN 5201/SC/CB 315	Seminar/REEN 5221/PS/CB 315	Remedial
WED	L/REEN 5201/AG/CB 315	L/REEN 5202/TC/CB 315	L/REEN 5202/TC/CB 315		L/REEN 5202/SKS/CB 315	Seminar/REEN 5221/PS/CB 315	Seminar/REEN 5221/PS/CB 315
THU	L/REEN 5244/TC/CB 315	L/REEN 5244/TC/CB 315	L/REEN 5201/SC/CB 315		L/REEN 5241/AG/CB 315	Remedial	Remedial
FRI	L/REEN 5244/TC/CB 315	L/REEN 5241/AG/CB 315	Remedial		L/REEN 5245/DS/CB 315	Seminar/REEN 5221/PS/CB 315	Remedial

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TIME TABLE

RENEWABLE ENERGY

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

INITIALS	FULLNAME	DEPARTMENT
SC	Prof. Sulagna Chatterjee	Chemical Engineering
PS	Prof. Pramita Sen	Chemical Engineering
AG	Prof. Abhijit Ghosh	Chemical Engineering
JD	Prof. (Dr.) Jayati Dutta	Chemistry & Environment
AM	Dr. Abhijit Mandal	Chemistry & Environment
SKS	Prof. Sukanta Saha	Mechanical Engineering
TC	Prof. Tapas Chakraborty	Electronics & Communication Engineering

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TIME TABLE

RENEWABLE ENERGY

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

COURSE STRUCTURE:

1 st Year 2 nd Semester (Semester 2)							
THEORY							
S.No	Code	Course Title	L	T	P	H	Credit
01	REEN 5201	Solar Energy Engineering	3	0	0	3	3
02	REEN 5202	Technology of Renewable Power Generation	3	0	0	3	3
03	REEN 5241-5242	Professional Elective III	3	0	0	3	3
04	REEN 5244-5246	Professional Elective IV	3	0	0	3	3
05		Audit Course – any one subject from Elective III or Elective IV bucket	3	0	0	0	0
Total Theory							12
LABORATORY/SESSIONAL							
S.No	Code	Course Title	L	T	P	H	Credit
01	REEN 5251	Non-Solar Renewable Energy Laboratory	0	0	4	4	2
02	REEN 5252	Solar Energy Laboratory	0	0	4	4	2
03	REEN 5221	Term Paper and Seminar	0	0	4	4	2
Total Practical							6
Semester Total							18

Professional Elective III Subject name	REEN 5241 Hydrogen and Fuel Cell Technology	REEN 5242 Sustainable Application in Renewable Energy	REEN 5243 Industrial Energy

Professional Elective IV Subject name	REEN 5244 Solar Photovoltaic System Design	REEN 5245 Sustainable Energy Conversion and Storage	REEN 5246 Waste Management With Renewable Energy Systems

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Mon	AEIE5202 AP/ICT 101	AEIE5241 SG/ICT101	AEIE5231 MC/ICT101			AEIE5293 SG+DC/ICT 101	
Tue	AEIE5241 SG/ICT 101	AEIE5231 MC/ICT 101	AEIE5243 DC/ICT 101		AEIE5293 SG+AMS/ICT 101	AEIE5293 SG+AMS/ICT 101	AEIE5293 SG+AMS/ICT 101
Wed	AEIE5243 DC/ICT 101		AEIE5202 AP/ICT 101		AEIE5201 SAM/CB201	AEIE5201 SAM/CB201	
Thurs	AEIE5241 SG/ICT 101	AEIE5231 MC/ICT 101	AEIE5201 SAM/ICT 101				
Fri		AEIE5202 AP/ICT 101	AEIE5243 MC/ICT 101				

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MON	L/REEN 5201/AG/CB 315	L/REEN 5245/AM/CB 315	L/REEN 5241/AG/CB 315	LUNCH BREAK	Remedial	L/REEN 5245/DS/CB 315	Remedial
TUE	Remedial	L/REEN 5202/SKS/CB 315	L/REEN 5245/JD/CB 315		L/REEN 5201/SC/CB 315	Seminar/REEN 5221/PS/CB 315	Remedial
WED	L/REEN 5201/AG/CB 315	L/REEN 5202/TC/CB 315	L/REEN 5202/TC/CB 315		L/REEN 5202/SKS/CB 315	Seminar/REEN 5221/PS/CB 315	Seminar/REEN 5221/PS/CB 315
THU	L/REEN 5244/TC/CB 315	L/REEN 5244/TC/CB 315	L/REEN 5201/SC/CB 315		L/REEN 5241/AG/CB 315	Remedial	Remedial
FRI	L/REEN 5244/TC/CB 315	L/REEN 5241/AG/CB 315	Remedial		L/REEN 5245/DS/CB 315	Seminar/REEN 5221/PS/CB 315	Remedial

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M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

INITIALS	FULLNAME	DEPARTMENT
SC	Prof. Sulagna Chatterjee	Chemical Engineering
PS	Prof. Pramita Sen	Chemical Engineering
AG	Prof. Abhijit Ghosh	Chemical Engineering
JD	Prof. (Dr.) Jayati Dutta	Chemistry & Environment
AM	Dr. Abhijit Mandal	Chemistry & Environment
SKS	Prof. Sukanta Saha	Mechanical Engineering
TC	Prof. Tapas Chakraborty	Electronics & Communication Engineering

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HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

RENEWABLE ENERGY

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

COURSE STRUCTURE:

1st Year 2nd Semester (Semester 2)							
THEORY							
S.No	Code	Course Title	L	T	P	H	Credit
01	REEN 5201	Solar Energy Engineering	3	0	0	3	3
02	REEN 5202	Technology of Renewable Power Generation	3	0	0	3	3
03	REEN 5241-5242	Professional Elective III	3	0	0	3	3
04	REEN 5244-5246	Professional Elective IV	3	0	0	3	3
05		Audit Course – any one subject from Elective III or ElectiveIV bucket	3	0	0	0	0
Total Theory							12
LABORATORY/SESSIONAL							
S.No	Code	Course Title	L	T	P	H	Credit
01	REEN 5251	Non-Solar Renewable Energy Laboratory	0	0	4	4	2
02	REEN 5252	Solar Energy Laboratory	0	0	4	4	2
03	REEN 5221	Term Paper and Seminar	0	0	4	4	2
Total Practical							6
Semester Total							18

Professional Elective III	REEN 5241	REEN 5242	REEN 5243
Subject name	Hydrogen and Fuel Cell Technology	Sustainable Application in Renewable Energy	Industrial Energy

Professional Elective IV	REEN 5244	REEN 5245	REEN 5246
Subject name	Solar Photovoltaic System Design	Sustainable Energy Conversion and Storage	Waste Management With Renewable Energy Systems

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	VLSI 5241/AS/ICT604	VLSI 5241/AS/ICT604	VLSI 5232/RRP/ICT604	LUNCH BREAK	VLSI 5242/SP/ICT 603		
TUE					VLSI 5202/KD/ICT 003(L2)	VLSI 5201/KM ICT 003(L2)	VLSI 5201/KM ICT 003(L2)
WED	VLSI 5232/RRP ICT 003(L2)	VLSI 5232/RRP/ ICT 003(L2)	VLSI 5241/AS/ ICT 003(L2)				
THU	VLSI 5201/KM/ICT 604	VLSI 5202/KD/ICT 604	VLSI 5202/KD/ICT 604				
FRI			VLSI 5242/SP/ICT 003(L2)				

To be Effective from 5th April, 2021

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Students should target 100% attendance

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

FACULTY NAME

INITIALS	FULLNAME	DEPARTMENT
AS	Prof. Anindya Sen	ECE
RRP	Prof. Rajib Ranjan Pal	ECE
SP	Prof. Srabanti Pandit	ECE
KD	Prof. Krishanu Dutta	ECE
KM	Prof. Kasturi Mukherjee	ECE

To be Effective from 5th April, 2021

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

Sl. No.	Course Type	Code	Course Title	Contact Hours/Week				Credits
				L	T	P	Total	
1	Professional core 3	VLSI5201	Analog VLSI IC Design	3	0	0	3	3
2	Professional core 4	VLSI5202	VLSI Design, Testing and Verification	3	0	0	3	3
3	Professional Elective PE-3	VLSI5231	Memory Technologies	3	0	0	3	3
		VLSI5232	Low Power VLSI Design					
4	Professional Elective PE-4	VLSI5241	Advanced VLSI Processor	3	0	0	3	3
		VLSI5242	Advanced Nano Devices					
5		VLSI5293	Term Paper and Seminar	0	0	4	4	2
6	Aud 2	Any one subject from Elective3 or Elective4 buckets	Audit Course – 2	2	0	0	2	0
Total of Theory				14	0	4	18	14

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	ECEN 5201/PRB/ ICT 003(L1)	ECEN 5202/DM/ ICT 003(L1)	ECEN 5202/DM ICT 003(L1)	LUNCH BREAK			
TUE	ECEN 5231/SB/ICT 604	ECEN 5231/SB/ICT 604	ECEN 5242/SC/ICT 604				
WED	ECEN 5201/PRB /ICT 604	ECEN 5201/PRB/ICT 604					
THU					ECEN 5241/SCH/ ICT 003(L1)	ECEN 5202/DM ICT 003(L1)	
FRI	ECEN 5241/ SCH/ICT 604	ECEN 5241/ SCH ICT 604			ECEN 5242/SC/ ICT 003(L1)	ECEN 5231/SB/ICT 003(L1)	

To be Effective from 5th April, 2021

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

FACULTY NAME

INITIALS	FULLNAME	DEPARTMENT
PRB	Prof. Prabir Banerjee	ECE
DM	Prof. Dulal Mondal	ECE
SB	Prof. Srabanti Pandit	ECE
SC	Prof. Soumyo Chatterjee	ECE
SCH	Prof. Sabyasachi Chatterjee	ECE

To be Effective from 5th April, 2021

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Member

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

A. Theory								
Sl No	Course Type	Code	Course Title	Contact Hrs/Week				Credits
				L	T	P	Total	
1	Professional Core 3	ECEN5201	Advanced Digital Communication Techniques	3	0	0	3	3
2	Professional Core 4	ECEN5202	Advanced DSP and Applications	3	0	0	3	3
3	Professional Elective III (Prog. Specific Professional Elective)	ECEN5231	Telecommunication Systems and Engineering	3	0	0	3	3
		ECEN5232	Image Processing and Pattern Recognition					
4	Professional Elective IV (Prog. Specific Professional Elective)	ECEN5241	Cognitive Radios and Networks	3	0	0	3	3
		ECEN5242	Microwave Measurement and Instrumentation					
		ECEN5243	Design of Communication Equipments and Systems					
5		ECEN5293	Term Paper and Seminar	0	0	4	4	2
6	Aud 2	Any course from Professional I Elective III or Professional I Elective IV buckets	Audit Course 2	2	0	0	2	0
Total Theory				14	0	4	18	14

To be Effective from 5th April, 2021

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Students should target 100% attendance

Member

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HERITAGE INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

M.tech. 1st Year 2nd Semester

Session 2020-2021

Day / Time	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00
MON		L/ CSEN 5201/ AB/ ICT 306	R/ CSEN 5201/ AB/ ICT 306	B	L/ CSEN 5202/ SPS/ ICT 306	R/ CSEN 5202/SPS/ ICT 306	R/ CSEN 5234/ SCB/ ICT 306
TUE	L/ CSEN 5202/ SPS/ ICT 306		L/ CSEN 5234/ SCB/ ICT 306	R	L/ CSEN 5243/ ADB/ ICT 306	R/ CSEN 5243/ ADB/ ICT 306	
WED	L/ CSEN 5234/ SCB/ ICT 306		NO ROOM	E	L/ CSEN 5231/ NB/ ICT 306	R/ CSEN 5231/NB/ ICT 306	
THU			L/ CSEN 5243/ ADB/ ICT 306	A	CSEN5293 SEMINAR/ ICT 306/SJS+RRC		
FRI		L/ CSEN 5201/ AB/ ICT 306		K	L/ CSEN 5231/ NB/ ICT 306		

To be Effective from 5th April, 2021

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M.Tech 1st Year 2nd Semester Course Curriculum

Sl.	Course Code	Course Name	Contact Hrs per Week				Credit Points
			L	T	P	Total	
A. THEORY							
1	CSEN5201	Advanced Algorithms	3	0	0	3	3
2	CSEN5202	Soft Computing	3	0	0	3	3
3	CSEN5231 – CSEN5240	Professional Elective III	3	0	0	3	3
	CSEN5231	Data Preprocessing and Analysis					
	CSEN5232	Secure Software Design and Enterprise Computing					
	CSEN5233	Computer Vision					
	CSEN5234	Theory of Computation					
	CSEN5235	Computational Geometry					
4	CSEN5241 – CSEN5250	Professional Elective IV	3	0	0	3	3
	CSEN5241	Human and Computer Interaction					
	CSEN5242	Graph Algorithms					
	CSEN5243	Cloud Computing					
	CSEN5244	Algorithms for VLSI CAD					
	CSEN5245	Spatial Informatics and GIS					
5	CSEN5231 - CSEN5250	Audit Course – any one subject from Elective III or Elective IV bucket	3	0	0	3	0
Total Theory			15	0	0	15	12
B. PRACTICAL							
1	CSEN5251	Advanced Algorithms Lab	0	0	4	4	2

2	CSE5252	Soft Computing Lab	0	0	4	4	2
Total Practical			0	0	8	8	4
C. SESSIONAL							
1	CSE5293	Term Paper and Seminar	0	0	4	4	2
Total Semester			15	0	12	27	18

Details of Faculty Members		
Initials	Name	Department
AB	Prof. Amitava Bagchi	CSE
SPS	Prof. Sandip Samaddar	
ADB	Prof. Adrija Bhattacharya	
SCB	Prof. Sabyasachee Banerjee	
NB	Prof. Nilina Bera	
SJS	Prof. Sujay Saha	
RRC	Prof. Reshma Roychoudhuri	

HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

<DEPARTMENT of BIOTECHNOLOGY>

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	L/BIOT5241 BC/ CB413	L/BIOT5231 RG/ CB413	L/BIOT5201 DC/ CB413		L/BIOT5242 RC/ CB413	R/BIOT5232 NKJ/ CB413	
TUE	L/BIOT5241 SDE CB413	L/BIOT5201 SMB CB413	L/BIOT5231 SB/ CB413		L/BIOT5232 SMB/ CB413	L/BIOT5202 TKG/ CB413	
WED	L/BIOT5242 RC CB413	R/BIOT5241 SDE CB413	L/BIOT5232 RG / CB413		L/BIOT5232 DC/ CB413	R/BIOT5202 TKG/ CB413	Seminar/BIOT5293 RC+KM CB413
THU	L/BIOT5242 KM CB413	L/BIOT5201 DC CB413	L/BIOT5231 SB/ CB413		R/BIOT5201 SMB/ CB413	R/BIOT5231 RG/ CB413	Seminar/BIOT5293 RC+KM CB413
FRI	L/BIOT5241 BC CB413	L/BIOT5202 SDE CB413	L/BIOT5202 TKG/ CB413		R/BIOT5242 KM/ CB413	Seminar/BIOT5293 RC+KM CB413	

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M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

INITIALS	FULLNAME	DEPARTMENT
SB	Prof.(Dr.) Srabanti Basu	BT
DC	Prof. (Dr.) Dipankar Chaudhury	BT
RG	Dr. Riddhi Goswami	BT
NKJ	Dr. Nandan Kumar Jana	BT
SMB	Dr. Soma Banerjee	BT
TKG	Dr. Tapan Kumar Ghosh	BT
KM	Dr. Kakali Mukherjee	BT
RC	Dr. Ruplekha Chatterjee	BT
BC	Dr. Bhaswati Chakraborty	BT
SDE	Dr. Sudipta Dey Bandyopadhyay	BT

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HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

< DEPARTMENT of BIOTECHNOLOGY >

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

COURSE STRUCTURE:

Code	Field	Course Title	Scheme of studies per week			Credits
			L	T	P	
A		Theory				
BIOT5201	Prof. Core	Advanced Bioinformatics	3	0	0	3
BIOT5202	Prof. Core	Advances in Bioreactor Design, Development and Scale Up	3	0	0	3
BIOT5231	Prof. Elective 3	Advanced Cell biology and Immunotechnology	3	0	0	3
BIOT5232		Genomics and Proteomics				
BIOT5241	Prof. Elective 4	Bioprocess Technology	3	0	0	3
BIOT5242		Advanced Food Biotechnology				
	Audit Course-2	Any one subject from Prof. Elective 3 or Prof. Elective 4 bucket*	3	0	0	0
		Total Theory	15	0	0	12
B		Practical	15	0	0	12
BIOT5251	Prof. Core	Advanced Bioinformatics Lab	0	0	4	2
BIOT5252	Prof. Core	Bioreactor Design and Scale Up Lab	0	0	4	2
		Total Practical	0	0	8	4
C		Sessional				4
BIOT5293	Seminar	Term Paper and Seminar	0	0	4	2
		Total Sessional	0	0	4	2
		SEMESTER TOTAL	15	0	12	18

* Total 3 electives have to be taken with at least one from each bucket; one of them will be treated as the non-credit mandatory course

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<i>SG</i>	Prof. (Dr.) Shantanu Ghorai	
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<i>SAM</i>	Prof. Samiul Alam	
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APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT
M. Tech 1st Year 2nd Semester **SESSION: 2020-2021**

M. Tech. in Applied Electronics and Instrumentation Engineering (AEIE)
Course Structure

1st Year 2nd Semester Syllabus:

Course Type	Course Code	Course Name	Contact Hrs Per Week				Credit Points
			L	T	P	Total	
Core 3	AEIE5201	Embedded Systems	3	0	0	3	3
Core 4	AEIE5202	Process Control System Design	3	0	0	3	3
Prog. Specific Elective	AEIE5231/	Elective-III (1) Micro Sensor Science and Technology (2) Advanced Power Electronics (3) Instrumental Methods of Analysis	3	0	0	3	3
	AEIE5232/						
	AEIE5233/						
Prog. Specific Elective	AEIE5241/	Elective-IV (1) Digital Image Processing (2) Statistical and Bio-signal Processing (3) Industrial Internet of Things	3	0	0	3	3
	AEIE5242/						
	AEIE5243/						
LAB	AEIE5251	Embedded Systems LAB	0	0	4	4	2
	AEIE5252	Process Control System Design LAB	0	0	4	4	2
	AEIE5293	Term Paper and Seminar	0	0	4	4	2
Aud 2		Audit course 2: Any one subject from Elective III or Elective IV	2	0	0	2	0
Total			16	0	8	26	18

Member

HOD

Principal

HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	VLSI 5241/AS/ICT604	VLSI 5241/AS/ICT604	VLSI 5232/RRP/ICT604	LUNCH BREAK	VLSI 5242/SP/ICT 603		
TUE					VLSI 5202/KD/ICT 003(L2)	VLSI 5201/KM ICT 003(L2)	VLSI 5201/KM ICT 003(L2)
WED	VLSI 5232/RRP ICT 003(L2)	VLSI 5232/RRP/ ICT 003(L2)	VLSI 5241/AS/ ICT 003(L2)				
THU	VLSI 5201/KM/ICT 604	VLSI 5202/KD/ICT 604	VLSI 5202/KD/ICT 604				
FRI			VLSI 5242/SP/ICT 003(L2)				

To be Effective from 5th April, 2021

A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.

Students should target 100% attendance

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

FACULTY NAME

INITIALS	FULLNAME	DEPARTMENT
AS	Prof. Anindya Sen	ECE
RRP	Prof. Rajib Ranjan Pal	ECE
SP	Prof. Srabanti Pandit	ECE
KD	Prof. Krishanu Dutta	ECE
KM	Prof. Kasturi Mukherjee	ECE

To be Effective from 5th April, 2021

**A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.
Students should target 100% attendance**

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (VLSI)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

Sl. No.	Course Type	Code	Course Title	Contact Hours/Week				Credits
				L	T	P	Total	
1	Professional core 3	VLSI5201	Analog VLSI IC Design	3	0	0	3	3
2	Professional core 4	VLSI5202	VLSI Design, Testing and Verification	3	0	0	3	3
3	Professional Elective PE-3	VLSI5231	Memory Technologies	3	0	0	3	3
		VLSI5232	Low Power VLSI Design					
4	Professional Elective PE-4	VLSI5241	Advanced VLSI Processor	3	0	0	3	3
		VLSI5242	Advanced Nano Devices					
5		VLSI5293	Term Paper and Seminar	0	0	4	4	2
6	Aud 2	Any one subject from Elective3 or Elective4 buckets	Audit Course – 2	2	0	0	2	0
Total of Theory				14	0	4	18	14

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	ECEN 5201/PRB/ ICT 003(L1)	ECEN 5202/DM/ ICT 003(L1)	ECEN 5202/DM ICT 003(L1)	LUNCH BREAK			
TUE	ECEN 5231/SB/ICT 604	ECEN 5231/SB/ICT 604	ECEN 5242/SC/ICT 604				
WED	ECEN 5201/PRB /ICT 604	ECEN 5201/PRB/ICT 604					
THU					ECEN 5241/SCH/ ICT 003(L1)	ECEN 5202/DM ICT 003(L1)	
FRI	ECEN 5241/ SCH/ICT 604	ECEN 5241/ SCH ICT 604			ECEN 5242/SC/ ICT 003(L1)	ECEN 5231/SB/ICT 003(L1)	

To be Effective from 5th April, 2021

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

FACULTY NAME

INITIALS	FULLNAME	DEPARTMENT
PRB	Prof. Prabir Banerjee	ECE
DM	Prof. Dulal Mondal	ECE
SB	Prof. Srabanti Pandit	ECE
SC	Prof. Soumyo Chatterjee	ECE
SCH	Prof. Sabyasachi Chatterjee	ECE

To be Effective from 5th April, 2021

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Students should target 100% attendance

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HERITAGE INSTITUTE OF TECHNOLOGY
TIME TABLE
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
M.TECH (COMMUNICATION)

M.TECH-1st YEAR 2ND SEMESTER

SESSION 2020-2021 (EVEN)

A. Theory								
Sl No	Course Type	Code	Course Title	Contact Hrs/Week				Credits
				L	T	P	Total	
1	Professional Core 3	ECEN5201	Advanced Digital Communication Techniques	3	0	0	3	3
2	Professional Core 4	ECEN5202	Advanced DSP and Applications	3	0	0	3	3
3	Professional Elective III (Prog. Specific Professional Elective)	ECEN5231	Telecommunication Systems and Engineering	3	0	0	3	3
		ECEN5232	Image Processing and Pattern Recognition					
4	Professional Elective IV (Prog. Specific Professional Elective)	ECEN5241	Cognitive Radios and Networks	3	0	0	3	3
		ECEN5242	Microwave Measurement and Instrumentation					
		ECEN5243	Design of Communication Equipments and Systems					
5		ECEN5293	Term Paper and Seminar	0	0	4	4	2
6	Aud 2	Any course from Professional I Elective III or Professional I Elective IV buckets	Audit Course 2	2	0	0	2	0
Total Theory				14	0	4	18	14

To be Effective from 5th April, 2021

A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.

Students should target 100% attendance

Member

HOD

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HERITAGE INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

M.tech. 1st Year 2nd Semester

Session 2020-2021

Day / Time	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00
MON		L/ CSEN 5201/ AB/ ICT 306	R/ CSEN 5201/ AB/ ICT 306	B	L/ CSEN 5202/ SPS/ ICT 306	R/ CSEN 5202/SPS/ ICT 306	R/ CSEN 5234/ SCB/ ICT 306
TUE	L/ CSEN 5202/ SPS/ ICT 306		L/ CSEN 5234/ SCB/ ICT 306	R	L/ CSEN 5243/ ADB/ ICT 306	R/ CSEN 5243/ ADB/ ICT 306	
WED	L/ CSEN 5234/ SCB/ ICT 306		NO ROOM	E	L/ CSEN 5231/ NB/ ICT 306	R/ CSEN 5231/NB/ ICT 306	
THU		L/ CSEN 5243/ ADB/ ICT 306		A	CSEN5293 SEMINAR/ ICT 306/SJS+RRC		
FRI		L/ CSEN 5201/ AB/ ICT 306		K	L/ CSEN 5231/ NB/ ICT 306		

To be Effective from 5th April, 2021

A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination. Students should target 100% attendance.

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M.Tech 1st Year 2nd Semester Course Curriculum

Sl.	Course Code	Course Name	Contact Hrs per Week				Credit Points
			L	T	P	Total	
A. THEORY							
1	CSEN5201	Advanced Algorithms	3	0	0	3	3
2	CSEN5202	Soft Computing	3	0	0	3	3
3	CSEN5231 – CSEN5240	Professional Elective III	3	0	0	3	3
	CSEN5231	Data Preprocessing and Analysis					
	CSEN5232	Secure Software Design and Enterprise Computing					
	CSEN5233	Computer Vision					
	CSEN5234	Theory of Computation					
	CSEN5235	Computational Geometry					
4	CSEN5241 – CSEN5250	Professional Elective IV	3	0	0	3	3
	CSEN5241	Human and Computer Interaction					
	CSEN5242	Graph Algorithms					
	CSEN5243	Cloud Computing					
	CSEN5244	Algorithms for VLSI CAD					
	CSEN5245	Spatial Informatics and GIS					
5	CSEN5231 - CSEN5250	Audit Course – any one subject from Elective III or Elective IV bucket	3	0	0	3	0
Total Theory			15	0	0	15	12
B. PRACTICAL							
1	CSEN5251	Advanced Algorithms Lab	0	0	4	4	2

2	CSE5252	Soft Computing Lab	0	0	4	4	2
Total Practical			0	0	8	8	4
C. SESSIONAL							
1	CSE5293	Term Paper and Seminar	0	0	4	4	2
Total Semester			15	0	12	27	18

Details of Faculty Members		
Initials	Name	Department
AB	Prof. Amitava Bagchi	CSE
SPS	Prof. Sandip Samaddar	
ADB	Prof. Adrija Bhattacharya	
SCB	Prof. Sabyasachee Banerjee	
NB	Prof. Nilina Bera	
SJS	Prof. Sujay Saha	
RRC	Prof. Reshma Roychoudhuri	

HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

<DEPARTMENT of BIOTECHNOLOGY>

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

DAY	10.00 AM – 10.50 AM	11.00 AM – 11.50 AM	12.00 NOON – 12.50 PM	1.00 PM – 2.00 PM	2.00 PM – 2.50 PM	3.00 PM – 3.50 PM	4.00 PM – 4.50 PM
MON	L/BIOT5241 BC/ CB413	L/BIOT5231 RG/ CB413	L/BIOT5201 DC/ CB413		L/BIOT5242 RC/ CB413	R/BIOT5232 NKJ/ CB413	
TUE	L/BIOT5241 SDE CB413	L/BIOT5201 SMB CB413	L/BIOT5231 SB/ CB413		L/BIOT5232 SMB/ CB413	L/BIOT5202 TKG/ CB413	
WED	L/BIOT5242 RC CB413	R/BIOT5241 SDE CB413	L/BIOT5232 RG / CB413		L/BIOT5232 DC/ CB413	R/BIOT5202 TKG/ CB413	Seminar/BIOT5293 RC+KM CB413
THU	L/BIOT5242 KM CB413	L/BIOT5201 DC CB413	L/BIOT5231 SB/ CB413		R/BIOT5201 SMB/ CB413	R/BIOT5231 RG/ CB413	Seminar/BIOT5293 RC+KM CB413
FRI	L/BIOT5241 BC CB413	L/BIOT5202 SDE CB413	L/BIOT5202 TKG/ CB413		R/BIOT5242 KM/ CB413	Seminar/BIOT5293 RC+KM CB413	

To be Effective from 5th April, 2021

A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.

Students should target 100% attendance

Member

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Principal

HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

< DEPARTMENT of BIOTECHNOLOGY >

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

INITIALS	FULLNAME	DEPARTMENT
SB	Prof.(Dr.) Srabanti Basu	BT
DC	Prof. (Dr.) Dipankar Chaudhury	BT
RG	Dr. Riddhi Goswami	BT
NKJ	Dr. Nandan Kumar Jana	BT
SMB	Dr. Soma Banerjee	BT
TKG	Dr. Tapan Kumar Ghosh	BT
KM	Dr. Kakali Mukherjee	BT
RC	Dr. Ruplekha Chatterjee	BT
BC	Dr. Bhaswati Chakraborty	BT
SDE	Dr. Sudipta Dey Bandyopadhyay	BT

Member

HOD

Principal

HERITAGE INSTITUTE OF TECHNOLOGY

TIME TABLE

< DEPARTMENT of BIOTECHNOLOGY >

M. Tech 1st Year 2nd Semester

SESSION: 2020-2021

COURSE STRUCTURE:

Code	Field	Course Title	Scheme of studies per week			Credits
			L	T	P	
A		Theory				
BIOT5201	Prof. Core	Advanced Bioinformatics	3	0	0	3
BIOT5202	Prof. Core	Advances in Bioreactor Design, Development and Scale Up	3	0	0	3
BIOT5231	Prof. Elective 3	Advanced Cell biology and Immunotechnology	3	0	0	3
BIOT5232		Genomics and Proteomics				
BIOT5241	Prof. Elective 4	Bioprocess Technology	3	0	0	3
BIOT5242		Advanced Food Biotechnology				
	Audit Course-2	Any one subject from Prof. Elective 3 or Prof. Elective 4 bucket*	3	0	0	0
		Total Theory	15	0	0	12
B		Practical	15	0	0	12
BIOT5251	Prof. Core	Advanced Bioinformatics Lab	0	0	4	2
BIOT5252	Prof. Core	Bioreactor Design and Scale Up Lab	0	0	4	2
		Total Practical	0	0	8	4
C		Sessional				4
BIOT5293	Seminar	Term Paper and Seminar	0	0	4	2
		Total Sessional	0	0	4	2
		SEMESTER TOTAL	15	0	12	18

* Total 3 electives have to be taken with at least one from each bucket; one of them will be treated as the non-credit mandatory course

Member

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