

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE A**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	L/ELEC 1001/ ICT 405 / SBS	L/CHEM 1001/ ICT 405/ TBA	T1/ MECH 1052/ ICT 405 / VKS T2/CHEM1001/ICT 612 / RRC	BREAK	L/MATH 1101/ ICT 405 / SDS	L/HMTS 1001/ ICT 405 / ABC	T1/ ELEC 1001/ ICT 405 / AK T2/ MATH 1101/ ICT 612 / SDS	L/SOFT SKILL/CM/		
TUE	L/MATH 1101/ ICT 405/ MP	L/ELEC 1001/ ICT 405 / AK	L/CHEM1001/ ICT 405 / PP	BREAK	LAB/MECH 1052/ GR 1/ CME 214 / ABS/ (SJ) LAB/MECH 1052/ GR 2/ CME 118/ SSP / (SP)					
WED	LAB/ ELEC 1011/GR 1/ CME 415/ AK/ (TKD+RDC) LAB/ CHEM 1011/ GR2/ CB 102/ ED/ (AKM)			BREAK	L/MATH 1101/ICT 405 / DC	T1/CHEM1001/ ICT 612 / AM T2/ELEC 1001/ ICT 405 / AK	L/HMTS 1001/ ICT 405/ ABC	INTERACTION LIBRARY		
THU	L/HMTS 1001/ ICT 405/ KGT	L/ELEC 1001/ ICT 405 / SBS	LIBRARY T1/ MATH 1101/ ICT 405 / TBA	BREAK	REMEDIAL	L/CHEM1001/ ICT 405 / RRC	LIFE SKILL CLASS/BB/ ICT 405			
FRI	LAB/HMTS 1011/ GR 1/ CME 007/ SB LAB/ HMTS 1011/ Gr2 / A 203/ KM		INTERACTION T2/MECH 1052/ ICT 405/ VKS	BREAK	LAB/CHEM1011/ GR 1/ CB 101 /TBA/ (AKM) LAB/ ELEC1011/GR 2/ CME 415 / SBS/ (NKM+BM)					

To be effective from 3<sup>rd</sup> February, 2022.  
A minimum of 75% attendance is mandatory for being eligible to sit for the Semester Examination.  
Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE A**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

**FACULTY NAMES**

<b>Faculty Name</b>	<b>Initials</b>	<b>Department</b>
Prof. Sudipta Sarkar	SDS	MATHEMATICS
Prof. Moumita Pramanik	MP	MATHEMATICS
Prof. Dipankar Chakraborty	DC	MATHEMATICS
Prof. Piyali Paul	PP	CHEMISTRY
Prof. Abhijit Mandal	AM	CHEMISTRY
Prof. Enakshi Dinda	ED	CHEMISTRY
Prof. Ruma Roy Choudhury	RRC	CHEMISTRY
Prof. Suvobrata Sil	SBS	ELECTRICAL
Prof. Anirban Koley	AK	ELECTRICAL
Mr. Clayton M. Moses	CMM	SOFT SKILLS
Dr. Banhishikha Bhattacharyya	BB	Student Counsellor
Prof. Aditi Bhunia Chakraborty	ABC	HUMANITIES
Prof. Kasturi Guha Thakurata	KGT	HUMANITIES
Prof. Sourav Bhattacharya	SB	HUMANITIES
Prof. Amalendu Biswas	ABS	MECHANICAL
Prof. Suswagata Poria	SP	MECHANICAL
Prof. Vishnu Kumar Singh	VKS	MECHANICAL
<b>TA NAMES</b>	<b>INITIALS</b>	<b>DEPARTMENT</b>
Tapasi Das Kundu	TKD	ELECTRICAL
Nikhil Maity	NKM	ELECTRICAL
Biswajyoti Mujherjee	BM	ELECTRICAL
Rupali Dey Chatterjee	RDC	ELECTRICAL
Subham Jana	SJ	MECHANICAL

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**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

Sanjay Pramanik	SP	MECHANICAL
Arun Kumar Mukherjee	AKM	CHEMISTRY

**COURSE STRUCTURE**

	Theory							
Sl. No	Category	Course Code	Course Title	Hours per week				Credits
				L	T	P	Total	
1	Basic Science course	CHEM1001	Chemistry I	3	1	0	4	4
2	Basic Science	MATH1101	Maths I	3	1	0	4	4

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**SESSION: 2021-2022**

	course							
3	Engineering Science course	ELEC1001	Basic Electrical Engineering	3	1	0	4	4
4	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	1	0	0	1	1
	<b>Total Theory</b>			<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>13</b>

<b>Laboratory / Practical</b>								
<b>Sl. No</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours per week</b>				<b>Credits</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
5	Basic Science course	CHEM1011	Chemistry I Laboratory	0	0	3	3	1.5
6	Engineering Science course	ELEC1011	Basic Electrical Engineering laboratory	0	0	2	2	1
7	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	0	0	4	4	2
	<b>Total Laboratory</b>			<b>0</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>4.5</b>
	<b>Total of Semester</b>			<b>22</b>				<b>17.5</b>

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	LAB/CHEM1011/GR 3/ CB 101/PP/ (HS)			BREAK	LAB/ ELEC1011/GR 3/ CME 415/ RB/ (BM+AS)			T3/ELEC 1001/ ICT 406/ ED		
	LAB/ELEC1011/GR 4/ CME 415 / ED/ (AS+SBH)				T4/ MECH 1052/ ICT 406/ SK	LAB/ MECH 1052/GR 4 /CME 118 /RM/ (SP)				
TUE	LAB/ MECH 1012/GR 3/ CME 214/ AR / (STR)				BREAK	L/MATH 1101/ ICT 406 / SDS	INTERACTION			
	LAB/CHEM1011/ GR 4/ CB 101/ AM(HS)			BREAK	T4/CHEM1001/ ICT 406 / RRC		LAB/HMTS 1011/GR4/ A203 / SB			
WED	L/ELEC 1001/ICT 406/ RB	L/MATH 1101/ ICT 406/ MP	L/CHEM1001/ ICT 406 / TBA	BREAK	T3/ MECH 1052 / ICT 406/AR	LAB/HMTS 1011/ GR3/ A 203 / SB		MENTORING/ ICT 406		
					INTERACTION	LIBRARY				
THU	L/MATH 1101/ ICT 406/ DC	L/ELEC 1001/ ICT 406/ ED	INTERACTION	BREAK	L/CHEM1001/ ICT 406 / PP	L/HMTS 1001/ ICT 406 / ABC	L/HMTS 1001/ ICT 406/ SPR	T3/ MATH 1101/ ICT 406/ SDS	LIFE SKILL CLASS/BB/ ICT 406	
			T4/ELEC 1001/ ICT 406 / ED					LIBRARY		
FRI	L/CHEM 1001/ICT 406 / AM	L/SOFTSKILS/ CB 616/CM	T3/CHEM1001/ ICT 406 / RRC	BREAK	L/ELEC 1001/ ICT 406 / RB	LIBRARY	L/HMTS 1001/ ICT 406/ ABC	REMEDIAL CLASS/ ICT406		
						T4/ MATH 1101/ ICT 406/ TBA				

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

**FACULTY NAMES**

<b>Faculty Name</b>	<b>Initials</b>	<b>Department</b>
Prof. Abhijit Mandal	AM	CHEMISTRY
Prof. Piyali Paul	PP	CHEMISTRY
Prof. Abhijit Mandal	AM	CHEMISTRY
Prof. Ruma Roy Choudhury	RRC	CHEMISTRY
Prof. Sudipta Sarkar	SDS	MATHEMATICS
Prof. Moumita Pramanik	MP	MATHEMATICS
Prof. Dipankar Chakraborty	DC	MATHEMATICS
Prof. Jayita Sarkar	JS	ELECTRICAL
Prof. Bidisha Roy	BR	ELECTRICAL
Mr. Clayton M. Moses	CMM	SOFT SKILLS
Dr. Banhishikha Bhattacharyya	BB	Student Counsellor
Prof. Adity Bhunia Chakraborty	ABC	HUMANITIES
Prof. Sourav Bhattacharya	SB	HUMANITIES
Prof. Saptaparna Roy	SPR	HUMANITIES
Prof. Avik Ray	AR	MECHANICAL
Prof. Subham Kundu	SK	MECHANICAL
Prof. Ritwik Mandal	RM	MECHANICAL
<b>TA NAMES</b>	<b>INITIALS</b>	<b>DEPARTMENT</b>
Asmita Saha	AS	ELECTRICAL
Swaraj Bandhu Hari	SBH	ELECTRICAL
Biswajyoti Mujherjee	BM	ELECTRICAL
Sayantan Rudra	STR	MECHANICAL
Sanjay Pramanik	SP	MECHANICAL
Himadri Sengupta	HS	CHEMISTRY

**COURSE STRUCTURE**

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

<b>Theory</b>								
<b>Sl. No</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours per week</b>				<b>Credits</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
1	Basic Science course	CHEM1001	Chemistry I	3	1	0	4	4
2	Basic Science course	MATH1101	Maths I	3	1	0	4	4
3	Engineering Science course	ELEC1001	Basic Electrical Engineering	3	0	0	4	4
4	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	1	0	0	1	1
<b>Total Theory</b>				<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>13</b>

<b>Laboratory / Practical</b>								
<b>Sl. No</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours per week</b>				<b>Credits</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
5	Basic Science course	CHEM1011	Chemistry I Laboratory	0	0	3	3	1.5
6	Engineering Science course	ELEC1011	Basic Electrical Engineering laboratory	0	0	2	2	1
7	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	0	0	4	4	2
<b>Total Laboratory</b>				<b>0</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>4.5</b>
<b>Total of Semester</b>				<b>22</b>				<b>17.5</b>

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**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	LAB/GR 5/MECH 1052/ CME 118/ DB/ (SJ)				LIFE SKILL CLASS/ ICT 506/BB					
	LAB/GR 6/MECH 1052/ CME 118/ SKS/ (STR)									
TUE	L/CHEM1001/ ICT 506 / RRC	L/MATH 1101/ ICT 506/ TBA	L/ELEC1001/ ICT 506 / JS	BREAK	LAB/ GR 5/ELEC 1011/ CME 415/ BR/ (AS+BM)			MENTORING / ICT 506		
					LAB/GR 6/CHEM1011/ CB 102/ TBA/ (HS)					
WED	L/CHEM1001/ ICT 506 / PP	L/ELEC1001/ ICT 506 / JS	L/SOFTSKILL /CB 616/CM	BREAK	T5/MECH 1052/ ICT 506/ MB	T5/MATH 1101/ ICT 506/ DC	REMEDIAL CLASS/ICT 506	LAB/HMTS 1011/ Gr-5 /A203 / SM		
					LIBRARY	LIBRARY		LAB / GR 6/ELEC 1011/ CME 415/ JS/ (AS+SK)		
THU	LAB/GR 5/CHEM1011/ CB 102/ ED/ (AKM)				LIBRARY	INTERACTION	T5/CHEM1001/ ICT 612/ TBA	L/ HMTS 1001/ ICT 506/ KGT		
	LAB/HMTS 1011/ A203/ Gr-6 /SB		T6/ MECH 1052 / ICT 612/ VKS		BREAK	T6/ ELEC 1001/ ICT 506/ BR	T6/ MATH 1101/ ICT 506/ DC			
FRI	L/ELEC1001/ ICT 506 /BR	L/MATH 1101/ ICT 506 / SDS	L/MATH 1101/ICT 506 /MP	BREAK	L/CHEM1001 / ICT 506 / AM	T5/ELEC 1001/ ICT 506 /JS	L/ HMTS 1001/ ICT 506 / KGT	L/ HMTS 1001/ ICT 506/ SPR		
						LIBRARY				

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

**FACULTY NAMES**

<b>Faculty Name</b>	<b>Initials</b>	<b>Department</b>
Prof. Piyali Paul	PP	CHEMISTRY
Prof. Ruma Roy Choudhury	RRC	CHEMISTRY
Prof. Enakshi Dinda	ED	CHEMISTRY
Prof. Abhijit Mandal	AM	CHEMISTRY
Prof. Sudipta Sarkar	SDS	MATHEMATICS
Prof. Moumita Pramanik	MP	MATHEMATICS
Prof. Dipankar Chakraborty	DC	MATHEMATICS
Prof. Bidisha Roy	BR	ELECTRICAL
Prof. Jayita Sarkar	JS	ELECTRICAL
Mr. Clayton M. Moses	CMM	SOFT SKILLS
Dr. Banhishikha Bhattacharyya	BB	Student Counsellor
Prof. Kasturi Guha Thakurata	KGT	HUMANITIES
Prof. Prof. Saptaparna Ray	SPR	HUMANITIES
Prof. Sourav Bhattacharya	SB	HUMANITIES
Samanwita Mukherjee	SM	HUMANITIES
Prof. Manik Barman	MB	MECHANICAL
Prof. Debiprasad Banerjee	DB	MECHANICAL
Prof. Sukanta Saha	SKS	MECHANICAL
Prof. Vishnu Kumar Singh	VKS	MECHANICAL
<b>TA NAMES</b>	<b>INITIALS</b>	<b>DEPARTMENT</b>
Asmita Saha	AS	ELECTRICAL
Santa Koley	SK	ELECTRICAL
Biswajyoti Mujherjee	BM	ELECTRICAL
Subham Jana	SJ	MECHANICAL
Sayantana Rudra	STR	MECHANICAL
Arun Kumar Mukherjee	AKM	CHEMISTRY
Himadri Sengupta	HS	CHEMISTRY

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

**COURSE STRUCTURE**

	Theory							
Sl. No	Category	Course Code	Course Title	Hours per week				Credits
				L	T	P	Total	
1	Basic Science course	CHEM1001	Chemistry I	3	1	0	4	4

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**ECE C**

**B. Tech. 1<sup>st</sup> Year 1st Semester**

**SESSION: 2021-2022**

2	Basic Science course	MATH1101	Maths I	3	1	0	4	4
3	Engineering Science course	ELEC1001	Basic Electrical Engineering	3	1	0	4	4
4	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	1	0	0	1	1
	<b>Total Theory</b>			<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>13</b>

<b>Laboratory / Practical</b>								
<b>Sl. No</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours per week</b>				<b>Credits</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
5	Basic Science course	CHEM1011	Chemistry I Laboratory	0	0	3	3	1.5
6	Engineering Science course	ELEC1011	Basic Electrical Engineering laboratory	0	0	2	2	1
7	Engineering Science course	MECH1012	Engineering Drawing (Engineering Graphics & Design)	0	0	4	4	2
	<b>Total Laboratory</b>			<b>0</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>4.5</b>
	<b>Total of Semester</b>			<b>22</b>				<b>17.5</b>

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TIME TABLE  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE A**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	L/CSEN 2004/ ICT 410/RNM	L/ECEN 2102/ ICT 410/ SM	L/ECEN 2101/ ICT 410/ SCH	B	LAB/ECEN 2152/ GR. 1/ ICT 603 / SM/(DP*+SM*)					
					LAB/ECEN 2051/GR. 2/ ICT 401/ AR/(MS*+PM*)		LAB/CSEN 2054/ GR. 2/ ICT 603/ RNM/(TM*+TNB*)			
TUE	LAB/ECEN 2051/GR. 1/ ICT 401/ SCH/(MS*+PM*)		LIBRARY	R	L//MATH2001/ ICT 410 / SB	LAB/ECEN 2153/GR. 1/ ICT 604/ AMB/(PSD*+SM*)				
	LAB/ECEN 2152/ GR. 2/ ICT 603/ SM/(DP*+AR*)		T2/MATH 2001/ ICT 410 /TBA							
WED	L/HMTS 2001/ ICT 410 /MDC	L/HMTS 2001/ ICT 410 /MDC	L/ CSEN 2004/ RNM/ ICT 410	E	T1/MATH 2001/ ICT 410 / TBA	L/ECEN 2102/ ICT 410/ SM	L/ CSEN 2004/ RNM/ ICT 410	LAB/CSEN 2054/GR. 1/ ICT B11/ RNM/(SM*+SDM*)		
					Library			LAB/ECEN 2153 / GR. 2/ ICT 604/ PAG/(MOU*+AD*)		
THU	L/ECEN 2101/ ICT 410/ SCH	L/ECEN 2103/ ICT 410/ AMB	L/MATH 2001/ ICT 410 /JB	A	L/HMTS 2001/ICT 410/ MDC	L/ECEN 2103/ ICT 410/ AMB				
FRI	L/ CSEN 2004/ ICT 410/ RNM	L/ECEN 2103/ ICT 410/ AMB	L/MATH 2001/ ICT 410/ SG	K	L/ECEN 2101/ ICT 410/SCH	L/ECEN 2102/ ICT 410/ SM	Remedial/ICT 410	Mentoring/IC T 410		

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**ECE A**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

**FACULTY NAMES**

<b>Faculty Names</b>	<b>Initials</b>	<b>Department</b>
Prof. Rudranath Mitra	RNM	ECE
Prof. Susovan Mandal	SM	ECE
Prof.Sabyasachi Chatterjee	SCH	ECE
Prof. Arindam Ray	AR	ECE
Prof. Amrita Banerjee	AMB	ECE
Prof. Prativa Agarwalla	PAG	ECE
Prof. Jhumpa Bhadra	JB	MATHEMATICS
Prof. Samarpita Bhattacharya	SB	MATHEMATICS
Prof. Souvik Ghosh	SG	MATHEMATICS
:Dr. Madhumita Das Chanda	MDC	HUMANITIES

**TA NAMES**

<b>TA Names</b>	<b>Initials</b>	<b>Department</b>
Debjani Paul	DP	ECE
Sushanta Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Prativa Mandal	PM	ECE
Aditi Roy	AR	ECE
Tapas Maity	TM	ECE
Partha Sarathi Das	PSD	ECE
Mousumi Samanta	MOU	ECE

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**ECE A**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

Arindam Das	AD	ECE
Siddhartha Majumder	SDM	CSE
Tarak Nath Bhowmick	TNB	CSE

**COURSE STRUCTURE**

<b>A. Theory</b>								
<b>Sl. No.</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Contact Hours/Week</b>				<b>Credit Points</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
1	Professional Core Course	<b>ECEN2101</b>	Analog Circuits	3	0	0	3	3
2	Professional Core Course	<b>ECEN2102</b>	Circuit and Network Theory	3	0	0	3	3
3	Professional Core Course	<b>ECEN2103</b>	Signals and Systems	3	0	0	3	3
4	Basic Science course	<b>MATH2001</b>	Mathematical Methods	3	1	0	4	4
5	Engg. Science courses	<b>CSEN2004</b>	Data Structure and Basic Algorithms	3	0	0	3	3
6	Humanities	<b>HMTS2001</b>	Human Values and Professional Ethics	3	0	0	3	3
<b>Total Theory</b>				<b>19</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>19</b>

<b>B. Practical</b>								
1	Professional Core Course	<b>ECEN2151</b>	Analog Circuits Laboratory	0	0	2	2	1
2	Professional Core Course	<b>ECEN2152</b>	Circuit and Network Theory Laboratory	0	0	3	3	1.5

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE A**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

3	Professional Core Course	<b>ECEN2153</b>	Signals and Systems Laboratory	0	0	2	2	1
4	Engg. Science Courses	<b>CSEN2054</b>	Data Structure and Basic Algorithms Laboratory	0	0	3	3	1.5
<b>Total Practical</b>				0	0	10	<b>10</b>	<b>5</b>
<b>Total of Semester</b>							<b>29</b>	<b>24</b>

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
TIME TABLE  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM	
MON	L/CSEN 2004/SSB/ ICT 409	L/ECEN 2103/ ICT 409/ PAG	L/MATH 2001/ ICT 409/ JB	B	LIBRARY		L/ ECEN 2101/ ICT 409/ AK				
					LAB/ECEN 2153/ GR. 4 / ICT 604/ PAG/(MOU*+AD*)						
TUE	L/HMTS 2001/ ICT 409 /KM	L/HMTS 2001/ ICT 409 /KM	L/ CSEN 2004/ICT 409/ SSB	R	L/ECEN 2101/ ICT 409/AK	T3/MATH 2001/ ICT 409/ SG	L/ECEN 2102/ ICT 409/ SJC	L/ECEN 2102/ ICT 409/ SJC	Mentoring/ ICT 409		
						Library					
WE D	LAB/ECEN 2153/ GR.3/ ICT 604/ PAG(PSD*+SM*)		L/MATH 2001/ ICT 409/ TBA	E	L/CSEN 2004/SSB/IC T 409	L/HMTS 2001/ ICT 409 /KM	LAB/CSEN 2054/GRP 3/ICT B03/DS*/SSB+AG				
	LAB/ECEN 2051/GR.4/ ICT 401/AR/(TM*+DP*)										
THU	L/ECEN 2103/ ICT 409/ PAG	L/ CSEN 2004/ ICT 409/ SSB	L/MATH 2001/ ICT 409/ SB	A	LAB/ ECEN 2152/GR.3/ ICT 604/ SJC/(PSD*+MOU*)			REMEDIAL / ICT 409			
					LAB/CSEN 2054/ GR.4/ICT B10/ABS*/SSB+SMK						
FRI	L/ECEN 2102/ ICT 409/ SJC	L/ECEN 2103/ ICT 409/PAG	L/ ECEN 2101/ ICT 409/ AK	K	LAB/ECEN 2051/GR.3/ ICT 401/ AR/(AD*+MS*)		Interaction	Library			
					LAB/ECEN 2152/GR.4/ ICT 604/ SJC(DP*+PSD*)			T4/MATH 2001/ ICT 409/ SG			

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**



**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

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**FACULTY NAMES**

<b>Faculty Names</b>	<b>Initials</b>	<b>Department</b>
Prof. Susobhan Baidya	SSB	CSE
Prof. Smritikona Borai	SMK	CSE
Prof. Anindita Ghosh	AG	CSE
Prof. Prativa Agarwalla	PAG	ECE
Prof. Atanu Kundu	AK	ECE
Prof. Arindam Ray	AR	ECE
Prof. Subhrajit Chakraborty	SJC	ECE
Prof. Jhumpa Bhadra	JB	MATHEMATICS
Prof. Samarpita Bhattacharya	SB	MATHEMATICS
Prof. Souvik Ghosh	SG	MATHEMATICS
Prof. Koyel Mallick	KM	HUMANITIES

**TA NAMES**

<b>TA Names</b>	<b>Initials</b>	<b>Department</b>
Debjani Paul	DP	ECE
Simantani Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Prativa Mandal	PM	ECE

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

Aditi Roy	AR	ECE
Tapas Maity	TM	ECE
Partha Sarathi Das	PSD	ECE
Mousumi Samanta	MOU	ECE
Arindam Das	AD	ECE
Debasis sarkar	DS	CSE
Abhijit Sinha	ABS	CSE

**COURSE STRUCTURE**

<b>A. Theory</b>								
<b>Sl. No.</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Contact Hours/Week</b>				<b>Credit Points</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
1	Professional Core Course	<b>ECEN2101</b>	Analog Circuits	3	0	0	3	3
2	Professional Core Course	<b>ECEN2102</b>	Circuit and Network Theory	3	0	0	3	3
3	Professional Core Course	<b>ECEN2103</b>	Signals and Systems	3	0	0	3	3
4	Basic Science course	<b>MATH2001</b>	Mathematical Methods	3	1	0	4	4
5	Engg. Science courses	<b>CSEN2004</b>	Data Structure and Basic Algorithms	3	0	0	3	3
6	Humanities	<b>HMTS2001</b>	Human Values and Professional Ethics	3	0	0	3	3
<b>Total Theory</b>				<b>19</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>19</b>

<b>B. Practical</b>
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To be effective from 3<sup>rd</sup> February, 2022.  
A minimum of 75% attendance is mandatory for being eligible to sit for the Semester Examination.  
Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE B**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

1	Professional Core Course	<b>ECEN2151</b>	Analog Circuits Laboratory	0	0	2	2	1
2	Professional Core Course	<b>ECEN2152</b>	Circuit and Network Theory Laboratory	0	0	3	3	1.5
3	Professional Core Course	<b>ECEN2153</b>	Signals and Systems Laboratory	0	0	2	2	1
4	Engg. Science Courses	<b>CSEN2054</b>	Data Structure and Basic Algorithms Laboratory	0	0	3	3	1.5
<b>Total Practical</b>				0	0	10	<b>10</b>	<b>5</b>
<b>Total of Semester</b>							<b>29</b>	<b>24</b>

To be effective from 3<sup>rd</sup> February, 2022.  
A minimum of 75% attendance is mandatory for being eligible to sit for the Semester Examination.  
Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
TIME TABLE  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	LAB/ECEN 2051/GR. 5/ ICT 401/ MK/(AD*+STM*)		L/CSEN 2004/ ICT 404/ HD	B	L/HMTS 2001/ICT 404/SC	L/MATH 2001/ICT 404/SB	MENTORING /ICT 404			
	LAB/ECEN 2153/GR. 6/ICT 604/ TC/(SUC*+RP*)									
TUE	L/ECEN 2101/ ICT 404/ MK	L/MATH 2001/ICT 404/MP	L/HMTS 2001/ ICT 404/SC	R	L/CSEN 2004/ ICT 404/HD	L/ECEN 2103/ ICT 404/ TC	REMEDIAL CLASS/ ICT 404	LAB/ ECEN 2152/GR.6/ ICT 604/ RRP/(DP*+PSD*)		
WED	L/MATH 2001/ ICT 404/ JB	L/ECEN 2101/ ICT 404/ MK	L/ECEN 2102/ ICT 404/ RRP	E	T5/MATH 2001/ICT 404/SG	L/CSEN 2004/ ICT 404/HD	Interaction			
					LIBRARY		T6/MATH 2001/ICT 404/SG			
THU	LAB/ ECEN 2152/ GR.5 / ICT 604/ RRP/(AD*+PS*)			A	L/ECEN 2103/ ICT 404/ TC	L/ ECEN 2102/ ICT 404/ RRP	LAB/CSEN 2055/GR.5/HD+BPS/(SB*+SMR*) /ICT B04			
	LAB/ECEN 2051/GR.6 / ICT 401/ MK/(TM* +MS*)		LIBRARY							
FRI	L/ ECEN 2102/ ICT 404/ RRP	L/ECEN 2101/ ICT 404/ MK	L/CSEN 2004/ ICT 404/ HD	K	L/ECEN 2103/ ICT 404/ TC	L/HMTS 2001/ICT 404/SC	Interaction	LAB/ECEN 2153/GR.5 /ICT 604/ TC(SUC*+PSD*)		
							LAB/ CSEN 2055/HD+SBP/(MB*+SMR*)/GR.6/ ICT B04			

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

**FACULTY NAMES**

<b>Faculty Names</b>	<b>Initials</b>	<b>Department</b>
Prof. Hemanta Kumar Dey	HD	IT
Prof. Bappa Sardar	BPS	IT
Prof.Subhra Pramanik	SBP	CSBS
Prof. Mousiki Kar	MK	ECE
Prof. Tapas Chakraborty	TC	ECE
Prof. Rajib Ranjan Paul	RRP	ECE
Prof. Jhumpa Bhadra	JB	MATHEMATICS
Prof. Samarpita Bhattacharya	SB	MATHEMATICS
Prof. Souvik Ghosh	SG	MATHEMATICS
Prof. Moumita Pramanik	MP	MATHEMATICS
Prof..Suparna Chakroborty	SC	HUMANITIES

**TA NAMES**

<b>TA Names</b>	<b>Initials</b>	<b>Department</b>
Debjani Paul	DP	ECE
Sushanta Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Tapas Maity	TM	ECE
Partha Sarathi Das	PSD	ECE
Mousumi Samanta	MOU	ECE
Arindam Das	AD	ECE
Sumana Chowdhury	SUC	ECE
Simantani Mandal	STM	ECE
Ruby Paul	RP	ECE
SIDDHARTHA BOSE	SB	IT

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

SAMADRITA RAY	SMR	IT
MANASH BHATTACHARJEE	MB	IT

**COURSE STRUCTURE**

<b>A. Theory</b>								
<b>Sl. No.</b>	<b>Category</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Contact Hours/Week</b>				<b>Credit Points</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	
1	Professional Core Course	<b>ECEN2101</b>	Analog Circuits	3	0	0	3	3
2	Professional Core Course	<b>ECEN2102</b>	Circuit and Network Theory	3	0	0	3	3
3	Professional Core Course	<b>ECEN2103</b>	Signals and Systems	3	0	0	3	3
4	Basic Science course	<b>MATH2001</b>	Mathematical Methods	3	1	0	4	4
5	Engg. Science courses	<b>CSEN2004</b>	Data Structure and Basic Algorithms	3	0	0	3	3
6	Humanities	<b>HMTS2001</b>	Human Values and Professional	3	0	0	3	3

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY**  
**TIME TABLE**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE C**

**B. Tech. 2<sup>nd</sup> Year 1<sup>st</sup> Semester**

**SESSION: 2021-2022**

			Ethics					
<b>Total Theory</b>				19	0	0	<b>19</b>	<b>19</b>

<b>B. Practical</b>								
1	Professional Core Course	<b>ECEN2151</b>	Analog Circuits Laboratory	0	0	2	2	1
2	Professional Core Course	<b>ECEN2152</b>	Circuit and Network Theory Laboratory	0	0	3	3	1.5
3	Professional Core Course	<b>ECEN2153</b>	Signals and Systems Laboratory	0	0	2	2	1
4	Engg. Science Courses	<b>CSEN2054</b>	Data Structure and Basic Algorithms Laboratory	0	0	3	3	1.5
<b>Total Practical</b>				0	0	10	<b>10</b>	<b>5</b>
<b>Total of Semester</b>							<b>29</b>	<b>24</b>

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**

TIME TABLE  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
ECE A

B. Tech. 3<sup>rd</sup> Year 1<sup>st</sup> Semester

SESSION: 2021-2022

DAY	9.00 AM – 9.55 AM	9.55 AM – 10.50 AM	10.50 AM – 11.45 AM	11.45 AM – 12.25 PM	12.25 PM – 1.20 PM	1.20 PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05 PM – 5.00 PM	5.00 PM – 5.55 PM
MON	L/ECEN 3104/ ICT 504/ SB	L/ECEN 3105/ICT 504/SDG	L/ECEN 3101/ ICT 504/ SND	B R E A K	L/ECEN 3103/ICT 504/DR	L/ECEN 3102/ICT 504/DM	L/(ECEN 3131/ 3132)/(SND/TC /CR)/ (ICT 504/505/511)			
TUE	L/ECEN 3105/ ICT 504/SDG	L/ECEN 3101/ ICT 504/ SND	L/ECEN 3104/ ICT 504/ SB		LAB/ECEN3154 /GR. 1/ ICT 002/SB/(SBJ*+BM*)		REMEDIAL/IC T504	MENTORING/IC T 504		
					LAB/ECEN 3153/GR2/DR/(DP*+TM*)/ICT 503					
WED	L/(ECEN 3131/ 3132)/(SND/TC/ CR)/ (ICT 504/505/511)	L/(ECEN 3131/ 3132)/(SND/TC /CR)/ (ICT 504/505/511)	L/ECEN 3102/ICT 504/ DM		LIBRARY	INTERACTION				
					LAB /ECEN 3151/GR. 2/ ICT 403/ SND/(MS*+AR*)					
THU	L/ECEN 3101/ ICT 504/SND	L/ECEN 3104/ ICT 504/ SB	L/ECEN 3103/ICT 504/ DR		L/ECEN 3105/ICT 504/ SDG	L/ECEN 3102/ICT 504/ DM	LAB 3151/GR. 2/ ICT 403/ SND/(PM*+STM*)			
							LIBRARY	INTERACTION		
FRI	LAB/ECEN 3152/GR2/ICT 604/DM/(SM* +MOU* )		L/ECEN 3103/ICT 504/ DR		LAB/ECEN 3154/GR. 2/ ICT002/ SB/(SBJ*+SKB*)					
	LAB/ECEN 3153/GR1/DR/(TM *+RP*)/ICT 503				LAB/ECEN 3152/GR1/ICT 603/DM/(SM*+MOU*)					

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

MEMBER

HOD

PRINCIPAL



**FACULTY NAMES**

Faculty Names	Initials	Department
Prof. Shounak Dasgupta	SDG	ECE
Prof. Sriparna Bhattacharya	SB	ECE
Prof. Sayantani Dutta	SND	ECE
Prof. Debamita Roy	DR	ECE
Prof. Dulal Mandal	DM	ECE
Prof. Tapas Chakraborty	TC	ECE
Prof. Chandrima Roy	CR	ECE

**TA NAMES**

TA Names	Initials	Department
Debjani Paul	DP	ECE
Sushanta Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Prativa Mandal	PM	ECE
Aditi Roy	AR	ECE
Tapas Maity	TM	ECE
Ruby Paul	RP	ECE
Mousumi Samanta	MOU	ECE
Suparna Banerjee	SBJ	AEIE
Bibhas Mikap	BM	AEIE
Sumit kumar bakshi	SKB	AEIE

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

MEMBER

HOD

PRINCIPAL

**Room for Professional Electives**

<b>Subject Code/ Section**</b>		<b>Faculty</b>	<b>Room No.</b>
<b>ECEN 3132(1section)</b>		CR	ICT 511
<b>ECEN 3132</b>	Section 1	SND	ICT 504
	Section 2	TC	ICT 505

\*\* Student list corresponding to the sections of Professional Electives to be circulated from the department.

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER****HOD****PRINCIPAL**

TIME TABLE  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
ECE A

B. Tech. 3<sup>rd</sup> Year 1<sup>st</sup> Semester

SESSION: 2021-2022

## COURSE STRUCTURE

3<sup>rd</sup>. Year, 1<sup>st</sup>. Semester

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours/Week				Credit Points
				L	T	P	Total	
1	Professional Core Course	ECEN3101	Digital Communication	3	0	0	3	3
2	Professional Core Course	ECEN3102	Digital Signal Processing	3	0	0	3	3
3	Professional Core Course	ECEN3103	Microwave Engineering	3	0	0	3	3
4	Professional Core Course	ECEN3104	Microprocessors and Microcontrollers	3	0	0	3	3
5	Professional Core Course	ECEN3105	Information Theory and Coding	3	0	0	3	3
6	Professional Elective-1	ECEN3131	Telecommunication Systems	3	0	0	3	3
		ECEN3132	Computer Networks					
		ECEN3133	Speech and Audio Processing					
Total Theory				18	0	0	18	18

B. Practical								
1	Professional Core Courses	ECEN3151	Digital Communication Laboratory	0	0	2	2	1
2	Professional Core Courses	ECEN3152	Digital Signal Processing Laboratory	0	0	2	2	1
3	Professional Core Course	ECEN3153	Microwave Engineering Laboratory	0	0	2	2	1
4	Professional Core Course	ECEN3154	Microprocessors and Microcontrollers Laboratory	0	0	2	2	1
Total Practical				0	0	8	8	4
Total of Semester							26	22

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

MEMBER

HOD

PRINCIPAL



**HERITAGE INSTITUTE OF TECHNOLOGY****TIME TABLE****DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. B)****B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER****SESSION 2021-2022****FACULTY NAMES**

<b>Faculty Names</b>	<b>Initial</b>	<b>Department</b>
Prof. Md. Shahnawaz	MS	ECE
Prof. Sayantani Dutta	SND	ECE
Prof. Tapas Chakraborty	TC	ECE
Prof. Chandrima Roy	CR	ECE
Prof. Shounak Dasgupta	SDG	ECE
Prof. Tania Das	TD	ECE
Prof. Pratima Shaw	PS	ECE
Prof. Shib Shankar Bhowmik	SSB	ECE

**TA NAMES**

<b>TA Names</b>	<b>Initials</b>	<b>Department</b>
Debjani Paul	DP	ECE
Sushanta Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Prativa Mandal	PM	ECE
Aditi Roy	AR	ECE
Simantani Mandal	STM	ECE
Tapas Maity	TM	ECE
Ruby Paul	RP	ECE
Mousumi Samanta	MOU	ECE
Suparna Banerjee	SBJ	AEIE
Bibhas Mikap	BM	AEIE
Sujoy kr. Das	SJD	AEIE
Sampa Paul	SMP	AEIE

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER****HOD****PRINCIPAL**

**HERITAGE INSTITUTE OF TECHNOLOGY****TIME TABLE****DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. B)****B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER****SESSION 2021-2022****Room for Professional Electives**

<b>Subject Code/ Section**</b>		<b>Faculty</b>	<b>Room No.</b>
<b>ECEN 3132(1section)</b>		CR	ICT 511
<b>ECEN 3132</b>	Section 1	SND	ICT 504
	Section 2	TC	ICT 505

\*\* Student list corresponding to the sections of Professional Electives to be circulated from the department.

**COURSE STRUCTURE**

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER****HOD****PRINCIPAL**

# HERITAGE INSTITUTE OF TECHNOLOGY

## TIME TABLE

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. B)

**B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER**

**SESSION 2021-2022**

**3<sup>rd</sup>. Year, 1<sup>st</sup>. Semester**

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours/Week				Credit Points
				L	T	P	Total	
1	Professional Core Course	ECEN3101	Digital Communication	3	0	0	3	3
2	Professional Core Course	ECEN3102	Digital Signal Processing	3	0	0	3	3
3	Professional Core Course	ECEN3103	Microwave Engineering	3	0	0	3	3
4	Professional Core Course	ECEN3104	Microprocessors and Microcontrollers	3	0	0	3	3
5	Professional Core Course	ECEN3105	Information Theory and Coding	3	0	0	3	3
6	Professional Elective-1	ECEN3131	Telecommunication Systems	3	0	0	3	3
		ECEN3132	Computer Networks					
		ECEN3133	Speech and Audio Processing					
Total Theory				18	0	0	18	18

B. Practical								
1	Professional Core Courses	ECEN3151	Digital Communication Laboratory	0	0	2	2	1
2	Professional Core Courses	ECEN3152	Digital Signal Processing Laboratory	0	0	2	2	1
3	Professional Core Course	ECEN3153	Microwave Engineering Laboratory	0	0	2	2	1
4	Professional Core Course	ECEN3154	Microprocessors and Microcontrollers Laboratory	0	0	2	2	1
Total Practical				0	0	8	8	4
Total of Semester							26	22

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER**

**HOD**

**PRINCIPAL**





**HERITAGE INSTITUTE OF TECHNOLOGY****TIME TABLE****DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. C)****B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER****SESSION 2021-2022****FACULTY NAMES**

<b>Faculty Name</b>	<b>Initial</b>	<b>Dept</b>
Prof. Asima Adak	AMD	ECE
Prof. Anindya Sen	AS	ECE
Prof. Soumyo Chatterjee	SC	ECE
Prof. Debanjali Sadhu	DS	ECE
Prof. Arindam Ray	AR	ECE
Prof. Sriparna Bhattacharya	SB	ECE
Prof. Sayantani Dutta	SND	ECE
Prof. Tapas Chakraborty	TC	ECE
Prof. Chandrima Roy	CR	ECE

**TA NAMES**

<b>TA Names</b>	<b>Initials</b>	<b>Department</b>
Debjani Paul	DP	ECE
Sushanta Mandal	SM	ECE
Madhabi Samanta	MS	ECE
Prativa Mandal	PM	ECE
Aditi Roy	AR	ECE
Tapas Maity	TM	ECE
Ruby Paul	RP	ECE
Mousumi Samanta	MOU	ECE
Koushik Majumder	KM	AEIE
Bibhas Mikap	BM	AEIE
Sumit kumar bakshi	SKB	AEIE

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER****HOD****Principal**

**HERITAGE INSTITUTE OF TECHNOLOGY****TIME TABLE****DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. C)****B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER****SESSION 2021-2022****Room for Professional Electives**

<b>Subject Code/ Section**</b>		<b>Faculty</b>	<b>Room No.</b>
<b>ECEN 3132</b> (1section)		CR	ICT 511
<b>ECEN 3132</b>	Section 1	SND	ICT 504
	Section 2	TC	ICT 505

\*\* Student list corresponding to the sections of Professional Electives to be circulated to concerned faculties and students

**COURSE STRUCTURE**

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

**MEMBER****HOD****Principal**

# HERITAGE INSTITUTE OF TECHNOLOGY

## TIME TABLE

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (SEC. C)

B TECH-3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER

SESSION 2021-2022

3<sup>rd</sup>. Year, 1<sup>st</sup>. Semester

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours/Week				Credit Points
				L	T	P	Total	
1	Professional Core Course	ECEN3101	Digital Communication	3	0	0	3	3
2	Professional Core Course	ECEN3102	Digital Signal Processing	3	0	0	3	3
3	Professional Core Course	ECEN3103	Microwave Engineering	3	0	0	3	3
4	Professional Core Course	ECEN3104	Microprocessors and Microcontrollers	3	0	0	3	3
5	Professional Core Course	ECEN3105	Information Theory and Coding	3	0	0	3	3
6	Professional Elective-1	ECEN3131	Telecommunication Systems	3	0	0	3	3
		ECEN3132	Computer Networks					
		ECEN3133	Speech and Audio Processing					
Total Theory				18	0	0	18	18

B. Practical								
1	Professional Core Courses	ECEN3151	Digital Communication Laboratory	0	0	2	2	1
2	Professional Core Courses	ECEN3152	Digital Signal Processing Laboratory	0	0	2	2	1
3	Professional Core Course	ECEN3153	Microwave Engineering Laboratory	0	0	2	2	1
4	Professional Core Course	ECEN3154	Microprocessors and Microcontrollers Laboratory	0	0	2	2	1
Total Practical				0	0	8	8	4
Total of Semester							26	22

To be effective from 3<sup>rd</sup> February, 2022.

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

Students should target 100% attendance

MEMBER

HOD

Principal

**HERITAGE INSTITUTE OF TECHNOLOGY**  
TIME TABLE  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55AM	9.55 AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00P M-5.55P M
MON	LAB/ECEN4161/KM/(AR*+PS*)/GRP 1/ICT 603			Break	OE2	OE3				
TUE			L/ECEN4111/KM/ICT 406						L/HMTS 4101/ICT 406/GF 1	
WED					OE2	OE3	L/ECEN 4142/AC/ICT 406		L/HMTS 4101/GF 2/ICT 406	
							L/ECEN 4142/AMD/ICT 506			
							L/ECEN 4144/SCH/ICT 409			
THU	LAB/ECEN4161/SP/(AR*+SUC*)GRP 2/ICT 603		L/ECEN 4142/AC/ICT 506							
			L/ECEN 4142/AMD/ICT 404							
			L/ECEN 4144/SCH/ICT 505							
FRI	L/ECEN4111/KM/ICT 405	L/ECEN4111/KM/ICT 405		OE2	OE3	L/ECEN 4142/AC/ICT 409	L/HMTS 4101/GF 1/ICT 406			
						L/ECEN 4142/AMD/ICT 404				
						L/ECEN 4144/SCH/ICT 504				

To be effective from 3rd February, 2022  
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**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

	<b>COURSE CODE</b>	<b>COURSE NAME</b>
OE 2	ECEN 4121	SOFTWARE DEFINED RADIO
	INFO 4121	FUNDAMENTAL OF CLOUD COMPUTING
	CSEN 4121	FUNDAMENTAL OF OPERATING SYSTEM
	MATH 4121	METHODS IN OPTIMIZATION
OE 3	ECEN 4124	PRINCIPLES OF RADAR
	CSEN4126	INTELLIGENT WEB AND BIG DATA
	AEIE 4126	OPTICAL INSTRUMENTATION
	AEIE 4127	INTRODUCTION TO EMBEDDED SYSTEM
	CHEN 4126	INDUSTRIAL TOTAL QUALITY MANAGEMENT
PE	ECEN 4142	FIBRE OPTIC COMMUNICATION
	ECEN 4144	ADHOC NETWORK AND SECURITY

**ELECTIVE ROOM NUMBERS**

<b>DAY</b>			<b>FACULTY NAMES</b>
MONDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	UKD
	CSEN 4121	ICT 410	AG
	MATH 4121	CB 613	SC
WEDNESDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 511	PRB
	INFO 4121	CME 505	UKD
	CSEN 4121	ICT 504	AG

To be effective from 3rd February, 2022

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

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MEMBER

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
TIME TABLE  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

	MATH 4121	CB 613	SC
FRIDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	DPN
	CSEN 4121	ICT 105	AG
	MATH 4121	CB 613	SC
MONDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 410	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 406	DMG
	CHEN 4126	CME 208	SB
WEDNESDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 406	AMB
	CSEN4126	ICT 504	TC
	AEIE 4126	CB 215	AP
	AEIE 4127	ICT 511	SAM
	CHEN 4126	CME 208	SV
FRIDAY ((1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 105	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 504	DMG
	CHEN 4126	CME 208	SV
TUESDAY (9:00 AM – 9:55 AM & 9:55 AM – 10:50 AM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 505	SCH
WEDNESDAY (2:15 PM – 03:10 PM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 506	SCH

To be effective from 3rd February, 2022

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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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof. (Dr.) Prabir Banerjee	PRB	ECE
Prof. Ananya Chattopadhyay	AC	ECE
Prof.(Dr.) Asima Adak	AMD	ECE
Prof.(Dr.) Tapas Chakraborty	TC	ECE
Prof.(Dr.) Sabyasachi Chatterjee	SCH	ECE
Prof. Amrita Banerjee	AMB	ECE
Prof.(Dr.) Kasturi Mukherjee	KM	ECE
Prof.(Dr.) Srabanti Pandit	SP	ECE
Prof. Damayanti Ghosh	DMG	AEIE
Prof. Samiul Alam	SAM	AEIE
Prof. Indrajit Naskar	IN	AEIE
Prof.(Dr.) Arabinda kr Pal	AP	AEIE
Prof.(Dr.) Anindita Kundu	AG	CSE
Prof. (Dr.) Sangita Bhattacharjee	SB	Ch.E
Prof. (Dr.) Swami Vedajnananda	SV	Ch.E
Prof. Uttam Kumar Dash	UKD	IT
Prof. Deep Malya Mukhopadhyay	DPN	IT
Prof.(Dr.) Sandip Chatterjee	SC	MATHEMATICS
GUEST FACULTY 1	GF 1	HUMANTIES
GUEST FACULTY 2	GF 2	HUMANTIES

To be effective from 3rd February, 2022  
A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.  
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HOD

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**TA NAMES**

TA names	Initials	Department
Aditi Roy	AR	ECE
Pritam Kumar Sahu	PS	ECE
Sumana Chowdhury	SUC	ECE

To be effective from 3rd February, 2022  
A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.  
Students should target 100% attendance  
HOD

MEMBER

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**COURSE STRUCTURE**

4<sup>th</sup> Year 1<sup>st</sup> Semester:

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours /Week				Credit Points
				L	T	P	Total	
1	Professional Elective-3	i) ECEN4141	i) Adaptive Signal Processing	3	0	0	3	3
		ii)ECEN4142	ii)Fiber Optic Communication					
		iii)ECEN4143	iii) Electromagnetic Interference and Compatibility					
		iv)ECEN4144	iv) Ad Hoc networks and security					
2	Open Elective-2	i) INFO4121	i) Fundamentals of Cloud Computing	3	0	0	3	3
		ii)ECEN4121	ii) Software Defined Radio					
		iii)AEIE4122	iii)Linear Control Systems and Applications					
		iv)CSEN4121	iv)Fundamentals of Operating Systems					
		v)MATH4121	v)Methods in Optimization					
		vi)MATH4122	vi)Advanced Linear Algebra					
3	Open Elective- 3	i)AEIE4126	i)Optical Instrumentation	3	0	0	3	3
		ii)AEIE4127	ii) Introduction to Embedded System					
		iii)CSEN4126	iii) Intelligent Web and Big Data					
		iv)BIOT4124	iv) Biosensor					
		v) CHEN4123	v)Industrial Total Quality Management					
		vi) ECEN4124	vi)Principles of Radar					
4	HU	HMTS4101	Principles of Management	3	0	0	3	3
Total Theory				12	0	0	12	12

To be effective from 3rd February, 2022  
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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

B. Sessional									
5	Project Work	ECEN4195	Project Stage – I	0	0	8	8	4	
6	Industrial Training/ Internship	ECEN4191	Industrial Training/ Internship	-	-	-	-	2	
Total Sessional				0	0	8	8	6	
Total of Semester without Honours				12	0	8	20	18	

C. Honours									
1	Honours	ECEN4111	Microelectronics and Analog VLSI design	3	0	0	3	3	
		ECEN4161	Microelectronics and Analog VLSI design Laboratory	0	0	2	2	1	
Total Honours				3	0	2	5	4	
Total of Semester with Honours				15	0	10	25	22	

Open Elective -2	i)ECEN4121	i) Software Defined Radio
	ii) ECEN4122	ii)Introduction to Machine Learning
	iii) ECEN4123	iii) Error Control Coding for Secure Data Transmission

Table 2: Open Elective 2 (to be offered by ECE department)

Open Elective -3	i)ECEN4124	i) Principles of Radar
	ii)ECEN4125	ii) Ad Hoc Wireless Networks
	iii) ECEN4126	iii)Introduction to VLSI Design

Table 3: Open Elective 3 (to be offered by ECE department)

To be effective from 3rd February, 2022  
A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.  
Students should target 100% attendance  
HOD

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**SEC A**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

To be effective from 3rd February, 2022  
A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.  
Students should target 100% attendance  
HOD

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55AM	9.55AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00PM-5.55PM
MON	L/HMTS 4101/ICT 406/GF 1	L/HMTS 4101/ICT 406/ GF1	L/ECEN4111/SP/ICT 406	Break	OE2	OE3	L/ECEN4111/SP/ICT 406			
TUE					LAB/ECEN4161/SP/(AR*+PS*)GRP 4/ICT 603					
WED	LAB/ECEN4161/SP/(SUC*+PS*)GRP 3/ICT 603		L/ECEN4111/SP/ICT 406		OE2	OE3	L/ECEN 4142/AC/ICT 406			
							L/ECEN 4142/AMD/ICT 506			
							L/ECEN 4144/SCH/ICT 409			
THU			L/ECEN 4142/AC/ICT 506							
			L/ECEN 4142/AMD/ICT 404							
			L/ECEN 4144/SCH/ICT 505							
FRI			L/HMTS 4101/ICT 612/ GF3		OE2	OE3	L/ECEN 4142/AC /ICT 409			
							L/ECEN 4142/AMD/ICT 404			
							L/ECEN 4144/SCH/ICT 504			

To be effective from 3rd February, 2022  
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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof. (Dr.) Prabir Banerjee	PRB	ECE
Prof. Ananya Chattopadhyay	AC	ECE
Prof.(Dr.) Asima Adak	AMD	ECE
Prof.(Dr.) Tapas Chakraborty	TC	ECE
Prof.(Dr.) Sabyasachi Chatterjee	SCH	ECE
Prof. Amrita Banerjee	AMB	ECE
Prof.(Dr.) Kasturi Mukherjee	KM	ECE
Prof.(Dr.) Srabanti Pandit	SP	ECE
Prof. Damayanti Ghosh	DMG	AEIE
Prof. Samiul Alam	SAM	AEIE
Prof. Indrajit Naskar	IN	AEIE
Prof.(Dr.) Arabinda kr Pal	AP	AEIE
Prof.(Dr.) Anindita Kundu	AG	CSE
Prof. (Dr.) Sangita Bhattacharjee	SB	Ch.E
Prof. (Dr.) Swami Vedajnananda	SV	Ch.E
Prof. Uttam Kumar Dash	UKD	IT
Prof. Deep Malya Mukhopadhyay	DPN	IT
Prof.(Dr.) Sandip Chatterjee	SC	MATHEMATICS
GUEST FACULTY 1	GF 1	HUMANTIES
GUEST FACULTY 2	GF 2	HUMANTIES
GUEST FACULTY 3	GF 3	HUMANTIES

To be effective from 3rd February, 2022

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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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**TA NAMES**

TA names	Initials	Department
Aditi Roy	AR	ECE
Pritam Kumar Sahu	PS	ECE
Sumana Chowdhury	SUC	ECE

To be effective from 3rd February, 2022  
A minimum of 75% attendance is mandatory for being eligible to sit for the End-Semester Examination.  
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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**COURSE STRUCTURE**

4<sup>th</sup> Year 1<sup>st</sup> Semester:

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours /Week				Credit Points
				L	T	P	Total	
1	Professional Elective-3	i) ECEN4141	i) Adaptive Signal Processing	3	0	0	3	3
		ii)ECEN4142	ii)Fiber Optic Communication					
		iii)ECEN4143	iii) Electromagnetic Interference and Compatibility					
		iv)ECEN4144	iv) Ad Hoc networks and security					
2	Open Elective-2	i) INFO4121	i) Fundamentals of Cloud Computing	3	0	0	3	3
		ii)ECEN4121	ii) Software Defined Radio					
		iii)AEIE4122	iii)Linear Control Systems and Applications					
		iv)CSEN4121	iv)Fundamentals of Operating Systems					
		v)MATH4121	v)Methods in Optimization					
		vi)MATH4122	vi)Advanced Linear Algebra					
3	Open Elective- 3	i)AEIE4126	i)Optical Instrumentation	3	0	0	3	3
		ii)AEIE4127	ii) Introduction to Embedded System					
		iii)CSEN4126	iii) Intelligent Web and Big Data					
		iv)BIOT4124	iv) Biosensor					
		v) CHEN4123	v)Industrial Total Quality Management					
		vi) ECEN4124	vi)Principles of Radar					
4	HU	HMTS4101	Principles of Management	3	0	0	3	3
Total Theory				12	0	0	12	12

To be effective from 3rd February, 2022

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**  
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**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

<b>B. Sessional</b>									
5	Project Work	ECEN4195	Project Stage – I	0	0	8	8	4	
6	Industrial Training/ Internship	ECEN4191	Industrial Training/ Internship	-	-	-	-	2	
<b>Total Sessional</b>				0	0	8	8	6	
<b>Total of Semester without Honours</b>				12	0	8	20	18	

<b>C. Honours</b>									
1	Honours	ECEN4111	Microelectronics and Analog VLSI design	3	0	0	3	3	
		ECEN4161	Microelectronics and Analog VLSI design Laboratory	0	0	2	2	1	
<b>Total Honours</b>				3	0	2	5	4	
<b>Total of Semester with Honours</b>				15	0	10	25	22	

Open Elective -2	i)ECEN4121 ii) ECEN4122 iii) ECEN4123	i) Software Defined Radio ii)Introduction to Machine Learning iii) Error Control Coding for Secure Data Transmission
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Table 2: Open Elective 2 (to be offered by ECE department)

Open Elective -3	i)ECEN4124 ii)ECEN4125 iii) ECEN4126	i) Principles of Radar ii) Ad Hoc Wireless Networks iii)Introduction to VLSI Design
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Table 3: Open Elective 3 (to be offered by ECE department)

To be effective from 3rd February, 2022  
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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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

	<b>COURSE CODE</b>	<b>COURSE NAME</b>
OE 2	ECEN 4121	SOFTWARE DEFINED RADIO
	INFO 4121	FUNDAMENTAL OF CLOUD COMPUTING
	CSEN 4121	FUNDAMENTAL OF OPERATING SYSTEM
	MATH 4121	METHODS IN OPTIMIZATION
OE 3	ECEN 4124	PRINCIPLES OF RADAR
	CSEN4126	INTELLIGENT WEB AND BIG DATA
	AEIE 4126	OPTICAL INSTRUMENTATION
	AEIE 4127	INTRODUCTION TO EMBEDDED SYSTEM
	CHEN 4126	INDUSTRIAL TOTAL QUALITY MANAGEMENT
PE	ECEN 4142	FIBRE OPTIC COMMUNICATION
	ECEN 4144	ADHOC NETWORK AND SECURITY

**ELECTIVE ROOM NUMBERS**

<b>DAY</b>			<b>FACULTY NAMES</b>
MONDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	UKD
	CSEN 4121	ICT 410	AG
	MATH 4121	CB 613	SC
WEDNESDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 511	PRB

To be effective from 3rd February, 2022

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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**HERITAGE INSTITUTE OF TECHNOLOGY**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

	INFO 4121	CME 505	UKD
	CSEN 4121	ICT 504	AG
	MATH 4121	CB 613	SC
FRIDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	DPN
	CSEN 4121	ICT 105	AG
	MATH 4121	CB 613	SC
MONDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 410	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 406	DMG
	CHEN 4126	CME 208	SB
WEDNESDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 406	AMB
	CSEN4126	ICT 504	TC
	AEIE 4126	CB 215	AP
	AEIE 4127	ICT 511	SAM
	CHEN 4126	CME 208	SV
FRIDAY ((1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 105	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 504	DMG
	CHEN 4126	CME 208	SV
TUESDAY (9:00 AM – 9:55 AM & 9:55 AM – 10:50 AM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 505	SCH

To be effective from 3rd February, 2022

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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**SEC B**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

WEDNESDAY (2:15 PM – 03:10 PM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 506	SCH

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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

DAY	9.00 AM – 9.55AM	9.55AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45A M- 12.25P M	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM- 5.00PM	5.00PM- 5.55PM
MON				Break	OE2	OE3		LAB/ECEN4161/DS/(AR*+SUC*)GRP 6/DS/ICT 603		
TUE		L/ECEN4111/KD/ ICT 406	L/ECEN4111/KD /ICT 406							
WED					OE2	OE3	L/ECEN 4142/AC/ICT 406	L/HMTS 4101/GF1/ ICT 511		
							L/ECEN 4142/AMD/ICT 506			
							L/ECEN 4144/ SCH/ICT 409			
THU			L/ECEN 4142/AC/ICT 506							
			L/ECEN 4142/AMD/ICT 404							
			L/ECEN 4144/ SCH/ICT 505							
FRI	L/ECEN4111/KD/ ICT 504	LAB/ECEN4161/DS/(AR*+PS*)GRP 5/DS/ICT 603			OE2	OE3	L/ECEN 4142/AC /ICT 409	L/HMTS 4101/GF1/ ICT 511	L/HMTS 4101/GF2/ ICT 511	
				L/ECEN 4142/AMD/ICT 404						
				L/ECEN 4144/ SCH/ICT 504						

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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof. (Dr.) Prabir Banerjee	PRB	ECE
Prof. Ananya Chattopadhyay	AC	ECE
Prof.(Dr.) Asima Adak	AMD	ECE
Prof.(Dr.) Tapas Chakraborty	TC	ECE
Prof.(Dr.) Sabyasachi Chatterjee	SCH	ECE
Prof. Amrita Banerjee	AMB	ECE
Prof.(Dr.) Kasturi Mukherjee	KM	ECE
Prof.(Dr.) Srabanti Pandit	SP	ECE
Prof. Krishanu Datta	KD	ECE
Prof. Debanjali Sadhu	DS	ECE
Prof. Damayanti Ghosh	DMG	AEIE
Prof. Samiul Alam	SAM	AEIE
Prof. Indrajit Naskar	IN	AEIE
Prof.(Dr.) Arabinda kr Pal	AP	AEIE
Prof.(Dr.) Anindita Kundu	AG	CSE
Prof. (Dr.) Sangita Bhattacharjee	SB	Ch.E
Prof. (Dr.) Swami Vedajnananda	SV	Ch.E
Prof. Uttam Kumar Dash	UKD	IT
Prof. Deep Malya Mukhopadhyay	DPN	IT
Prof.(Dr.) Sandip Chatterjee	SC	MATHEMATICS
GUEST FACULTY 1	GF 1	HUMANTIES

To be effective from 3rd February, 2022

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**SESSION: 2021-2022**

GUEST FACULTY 2	GF 2	HUMANTIES
GUEST FACULTY 3	GF 3	HUMANTIES

**TA NAMES**

TA names	Initials	Department
Aditi Roy	AR	ECE
Pritam Kumar Sahu	PS	ECE
Sumana Chowdhury	SUC	ECE

To be effective from 3rd February, 2022  
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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**COURSE STRUCTURE**

To be effective from 3rd February, 2022  
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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

**4<sup>th</sup> Year 1<sup>st</sup> Semester:**

A. Theory								
Sl. No.	Category	Course Code	Course Title	Contact Hours /Week				Credit Points
				L	T	P	Total	
1	Professional Elective-3	i) ECEN4141	i) Adaptive Signal Processing	3	0	0	3	3
		ii)ECEN4142	ii)Fiber Optic Communication					
		iii)ECEN4143	iii) Electromagnetic Interference and Compatibility					
		iv)ECEN4144	iv) Ad Hoc networks and security					
2	Open Elective-2	i) INFO4121	i) Fundamentals of Cloud Computing	3	0	0	3	3
		ii)ECEN4121	ii) Software Defined Radio					
		iii)AEIE4122	iii)Linear Control Systems and Applications					
		iv)CSEN4121	iv)Fundamentals of Operating Systems					
		v)MATH4121	v)Methods in Optimization					
		vi)MATH4122	vi)Advanced Linear Algebra					
3	Open Elective- 3	i)AEIE4126	i)Optical Instrumentation	3	0	0	3	3
		ii)AEIE4127	ii) Introduction to Embedded System					
		iii)CSEN4126	iii) Intelligent Web and Big Data					
		iv)BIOT4124	iv) Biosensor					
		v) CHEN4123	v)Industrial Total Quality Management					
		vi) ECEN4124	vi)Principles of Radar					
4	HU	HMTS4101	Principles of Management	3	0	0	3	3
Total Theory				12	0	0	12	12

**To be effective from 3rd February, 2022**

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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

B. Sessional									
5	Project Work	ECEN4195	Project Stage – I	0	0	8	8	4	
6	Industrial Training/ Internship	ECEN4191	Industrial Training/ Internship	-	-	-	-	2	
Total Sessional				0	0	8	8	6	
Total of Semester without Honours				12	0	8	20	18	

C. Honours									
1	Honours	ECEN4111	Microelectronics and Analog VLSI design	3	0	0	3	3	
		ECEN4161	Microelectronics and Analog VLSI design Laboratory	0	0	2	2	1	
Total Honours				3	0	2	5	4	
Total of Semester with Honours				15	0	10	25	22	

Open Elective -2	i) ECEN4121	i) Software Defined Radio
	ii) ECEN4122	ii) Introduction to Machine Learning
	iii) ECEN4123	iii) Error Control Coding for Secure Data Transmission

Table 2: Open Elective 2 (to be offered by ECE department)

Open Elective -3	i) ECEN4124	i) Principles of Radar
	ii) ECEN4125	ii) Ad Hoc Wireless Networks
	iii) ECEN4126	iii) Introduction to VLSI Design

Table 3: Open Elective 3 (to be offered by ECE department)

To be effective from 3rd February, 2022  
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**SEC C**

**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

	<b>COURSE CODE</b>	<b>COURSE NAME</b>
OE 2	ECEN 4121	SOFTWARE DEFINED RADIO
	INFO 4121	FUNDAMENTAL OF CLOUD COMPUTING
	CSEN 4121	FUNDAMENTAL OF OPERATING SYSTEM
	MATH 4121	METHODS IN OPTIMIZATION
OE 3	ECEN 4124	PRINCIPLES OF RADAR
	CSEN4126	INTELLIGENT WEB AND BIG DATA
	AEIE 4126	OPTICAL INSTRUMENTATION
	AEIE 4127	INTRODUCTION TO EMBEDDED SYSTEM
	CHEN 4126	INDUSTRIAL TOTAL QUALITY MANAGEMENT
PE	ECEN 4142	FIBRE OPTIC COMMUNICATION
	ECEN 4144	ADHOC NETWORK AND SECURITY

**ELECTIVE ROOM NUMBERS**

<b>DAY</b>			<b>FACULTY NAMES</b>
MONDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	UKD
	CSEN 4121	ICT 410	AG
	MATH 4121	CB 613	SC
WEDNESDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 511	PRB
	INFO 4121	CME 505	UKD
	CSEN 4121	ICT 504	AG
	MATH 4121	CB 613	SC

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**B.TECH, 4<sup>th</sup> YEAR, 1<sup>st</sup> SEMESTER**

**SESSION: 2021-2022**

FRIDAY (12:25 PM – 1.20 PM)	ECEN 4121	ICT 409	PRB
	INFO 4121	CME 416	DPN
	CSEN 4121	ICT 105	AG
	MATH 4121	CB 613	SC
MONDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 410	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 406	DMG
	CHEN 4126	CME 208	SB
WEDNESDAY (1:20 PM – 2:15 PM)	ECEN 4124	ICT 406	AMB
	CSEN4126	ICT 504	TC
	AEIE 4126	CB 215	AP
	AEIE 4127	ICT 511	SAM
	CHEN 4126	CME 208	SV
FRIDAY ((1:20 PM – 2:15 PM)	ECEN 4124	ICT 409	AMB
	CSEN4126	ICT 105	TC
	AEIE 4126	CB 215	IN
	AEIE 4127	ICT 504	DMG
	CHEN 4126	CME 208	SV
TUESDAY (9:00 AM – 9:55 AM & 9:55 AM – 10:50 AM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 505	SCH
WEDNESDAY (2:15 PM – 03:10 PM)	ECEN 4142	ICT 406	AC
	ECEN 4142	ICT 410	AMD
	ECEN 4144	ICT 506	SCH

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**M.TECH ECE**

**SESSION: 2021-2022**

**1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER**

DAY	9.00 AM – 9.55AM	9.55 AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00PM-5.55PM
MON	L/ECEN5102/AR/ICT 613	L/ECEN5102/AC/ICT 613	L/ECEN5102/AC/ICT 613	Break						
TUE	L/ECEN5101/SC/ICT 613	L/ECEN5131/AR/ICT 613	L/ECEN5131/AR/ICT 613		L/ECEN 5103/MK/ICT 613	L/ECEN 5103/MK/ICT 613	LAB/ECEN 5152/ AC/SM*/ICT 601			
WED	L/ECEN 5141/SB/ICT 613	L/ECEN 5141/SB/ICT 613								
THU	L/ECEN5101 /SC/ICT 613	L/ECEN5101 /SC/ICT 613	L/ECEN5131/PR B/ICT 613		LAB/ECEN 5151 /SC/SM*/ICT 601					
FRI	L/ECEN 5141 /SB/ICT 613	L/DIMA5116/SR/ICT 613	L/DIMA5116/SR /ICT 613							

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**M.TECH ECE**

**SESSION: 2021-2022**

**1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof. (Dr.) Prabir Banerjee	PRB	ECE
Prof. Arindam Ray	AR	ECE
Prof.(Dr.) Soumyo Chatterjee	SC	ECE
Prof.(Dr.) Mousiki Kar	MK	ECE
Prof. Ananya Chattopadhyay	AC	ECE
Prof.(Dr.) Sriparna Bhattacharya	SB	ECE
Prof. Suli Roy	SR	IT

**TA NAMES**

TA names	Initials	Department
Sushanta Mandal	SM	ECE

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**M.TECH ECE**

SESSION: 2021-2022

1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER

## COURSE STRUCTURE

1<sup>st</sup> Year, Semester I

A. Theory								
Sl No	Course Type	Code	Course Title	Contact Hrs/Week				Credits
				L	T	P	Total	
1	Professional Core 1	ECENS101	Antenna and Radiating Systems	3	0	0	3	3
2	Professional Core 2	ECENS102	Wireless and Mobile Communication	3	0	0	3	3
3	Professional Elective I (Prog. Specific Professional Elective)	ECENS131	Wireless Ad Hoc and Sensor Networks	3	0	0	3	3
		ECENS132	Photonics and Optical Communication Networks					
		ECENS133	Statistical Process in Communication					
4	Professional Elective II (Prog. Specific Professional Elective)	ECENS141	Satellite Communication and applications	3	0	0	3	3
		ECENS142	Multimedia Communication					
		ECENS143	Cryptography and Network Security					
5	Mgt. Group	ECENS103	Research Methodology and IPR	2	0	0	2	2
6	Audit 1	DIMAS116	Disaster Management	2	0	0	2	0
		INCOS117	Constitution of India					
		PDLSS118	Personality Development					
		YOGAS119	Stress Management by Yoga					
		SANSK120	Sanskrit for Technical Knowledge					
Total Theory				16	0	0	16	14

B. Practical								
1	Professional lab1	ECENS151	Antenna and Radiating Systems lab	0	0	4	4	2
2	Professional lab2	ECENS152	Wireless and Mobile Communication lab	0	0	4	4	2
Total Practical				0	0	8	8	4
Total for Semester				16	0	8	24	18

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**M.TECH ECE**

**SESSION: 2021-2022**

**2<sup>nd</sup> YEAR, 1<sup>st</sup> SEMESTER**

DAY	9.00 AM – 9.55AM	9:55 AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00PM-5.55PM
MON		<b>L/MATH 6121/ CB 417/MS</b>	<b>L/MATH 6121/CB 417/MS</b>	Break						
TUE		<b>L/ECEN 6132/PRB/ ICT 509</b>	<b>L/ECEN 6132/PRB/ICT 509</b>							
WED		L/ECEN 6132/PRB/ICT 509								
THU										
FRI					L/MATH 6121/CB 217/DC					

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**M.TECH ECE**

**SESSION: 2021-2022**

**2<sup>nd</sup> YEAR, 1<sup>st</sup> SEMESTER**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof. (Dr.) Prabir Banerjee	PRB	ECE
Prof.(Dr.) Dipankar Chakraborty	DC	Mathematics
Prof. Moulipriya Sarkar	MS	Mathematics

To be effective from 3rd February, 2022  
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**M.TECH ECE**

2<sup>nd</sup> YEAR, 1<sup>st</sup> SEMESTER

SESSION: 2021-2022

## **COURSE STRUCTURE**

2<sup>nd</sup>, Year, Semester I

A. Theory								
Sl No	Course Type	Code	Course Title	Contact Hrs/Week				Credits
				L	T	P	Total	
1	Professional Elective V (Prog. Specific Professional Elective)	ECEN6131	Remote Sensing and applications	3	0	0	3	3
		ECEN6132	Internet of Things (IoT) and applications					
		ECEN6133	MIMO Systems					
2	Open Elective	MATH6121	Optimization Techniques	3	0	0	3	3
		CSEN6121	Business Analytics					
		ECEN 6125	Design and Technology for Photonic Integrated Circuit					
		AEIE6123	Intelligent Control					
Total of Theory				6	0	0	6	6

<b>B. Sessional</b>								
1	Dissertation	ECEN6195	Dissertation Phase I	0	0	20	20	10
<b>Total of Semester</b>				<b>6</b>	<b>0</b>	<b>20</b>	<b>26</b>	<b>16</b>

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TIME TABLE  
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**M.TECH VLSI**

**SESSION: 2021-2022**

**1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER**

DAY	9.00 AM – 9.55AM	9.55 AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00PM-5.55PM
MON	L/VLSI 5102/AS/ICT 614	L/VLSI 5102/AS/ICT 614	<b>LIBRARY</b>	Break	LAB/VLSI 5151 /PS/PS*/ICT 602					
TUE		L/VLSI 5142/SP/ICT 614	<b>L/VLSI 5142/SP/ICT 614</b>		L/ECEN 5103/MK/ICT 613	L/ECEN 5103/MK/ICT 613				
WED			<b>L/VLSI 5102/AS/ICT 614</b>		L/VLSI 5132/TC/ICT 614	L/VLSI 5132/TC/ICT 614				
THU	L/VLSI 5101/KD/ICT 614	L/VLSI 5101/KD/ICT 614	L/VLSI 5132/TC/ICT 614		LAB/VLSI 5152/AS/AR*/ICT 602					
FRI	L/VLSI 5142/SP/614	L/DIMA5116/SR/ICT 613	<b>L/DIMA5116/SR/ICT 613</b>		L/VLSI 5101/KD/ICT 614					

To be effective from 3rd February, 2022

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**M.TECH VLSI**

**SESSION: 2021-2022**

**1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER**

**FACULTY NAMES**

Faculty names	Initials	Department
Prof.(Dr.) Anindya Sen	AS	ECE
Prof.(Dr.) Srabanti Pandit	SP	ECE
Prof. Pratima Shaw	PS	ECE
Prof.(Dr.) Mousiki Kar	MK	ECE
Prof.(Dr.) Tapas Chakraborty	TC	ECE
Prof. Krishanu Datta	KD	ECE
Prof. Suli Roy	SR	IT

**TA NAMES**

TA names	Initials	Department
Aditi Roy	AR	ECE
Pritam Kumar Sahu	PS	ECE

To be effective from 3rd February, 2022  
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**M.TECH VLSI**

SESSION: 2021-2022

1<sup>st</sup> YEAR, 1<sup>st</sup> SEMESTER

**COURSE STRUCTURE**

M.Tech. VLSI  
1<sup>st</sup>. Year, Semester I

A. Theory								
Sl. No.	Course Type	Code	Course Title	Contact Hours/Week				Credits
				L	T	P	Total	
1	Professional core 1	VLSI5101	Digital VLSI IC Design	3	0	0	3	3
2	Professional core 2	VLSI5102	Embedded Systems Design	3	0	0	3	3
3	Professional Elective PE-1	VLSI5131	DSP For VLSI System	3	0	0	3	3
		VLSI5132	VLSI IC Fabrication					
4	Professional Elective PE-2	VLSI5141	CAD of Digital System	3	0	0	3	3
		VLSI5142	Modelling of VLSI Device					
5	Mgt. Group	ECEN5103	Research Methodology and IPR	2	0	0	2	2
6	Audit 1	DIMA5116	Disaster Management	2	0	0	2	0
		INCO5117	Constitution of India					
		PDL5118	Personality Development					
		YOGA5119	Stress Management by Yoga					
		SANS5120	Sanskrit for Technical Knowledge					
Total of Theory				16	0	0	16	14

B. Practical								
1	Professional Core Lab1	VLSI5151	Digital VLSI IC Design Lab	0	0	4	4	2
2	Professional Core Lab2	VLSI5152	Embedded Systems Design Lab	0	0	4	4	2
Total of Practical				0	0	8	8	4
Total of Semester				16	0	8	24	18

To be effective from 3rd February, 2022

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**HERITAGE INSTITUTE OF TECHNOLOGY**  
TIME TABLE  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**M.TECH VLSI**

**SESSION: 2021-2022**

**2<sup>nd</sup> YEAR, 1<sup>st</sup> SEMESTER**

DAY	9.00 AM – 9.55AM	9.55 AM – 10.50 AM	10.50 NOON – 11.45 PM	11.45AM-12.25PM	12.25 PM – 1.20PM	1.20PM – 2.15 PM	2.15 PM – 3.10 PM	3.10 PM – 4.05 PM	4.05PM-5.00PM	5.00PM-5.55PM
MON		L/MATH 6121/CB 417/MS	L/MATH 6121/CB 417/MS	Break						
TUE						L/VLSI 6132/KM/ICT 509	L/VLSI 6132/KM/ICT 509			
WED			L/VLSI 6132/AMB/ICT 509							
THU					L/VLSI 6125/SM/ICT 509					
FRI	L/VLSI 6125/SM/ICT 509	L/VLSI 6125/SM/ICT 509			L/MATH 6121/CB 217/DC					

To be effective from 3rd February, 2022  
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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**FACULTY NAMES**

Faculty names	Initials	Department
Prof. Amrita Banerjee	AMB	ECE
Prof.(Dr.) Kasturi Mukherjee	KM	ECE
Prof.(Dr.) Susovan Mandal	SM	ECE
Prof.(Dr.) Dipankar Chakraborty	DC	Mathematics
Prof. Moulipriya Sarkar	MS	Mathematics

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SESSION: 2021-2022

**COURSE STRUCTURE**

**2<sup>nd</sup> Year, Semester I**

A. Theory								
Sl. No.	Course Type	Code	Course Title	Contact Hours/Week				Credits
				L	T	P	Total	
1	Professional Elective PE-5	VLSI6131	Nano materials and Nano Technology	3	0	0	3	3
		VLSI6132	RF IC Design and MEMS					
2	Open Elective	MATH6121	Optimization Techniques	3	0	0	3	3
		CSEN6121	Business Analytics					
		ECEN 6125	Design and Technology for Photonic Integrated Circuit					
		AEIE6123	Intelligent Control					
Total of Theory				6	0	0	6	6

B. Sessional								
1	Dissertation	VLSI6195	Dissertation Phase I	0	0	20	20	10
Total of Semester				6	0	20	26	16

**OPEN ELECTIVES TO BE OFFERED BY ECE DEPARTMENT (3<sup>rd</sup> Semester):**

Open Elective	ECEN6121	Ad Hoc Networks and Uses	3	0	0	3	3
	ECEN6122	Embedded Systems					
	ECEN6123	Cognitive Radios					
	ECEN6124	Automation in VLSI Design					

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