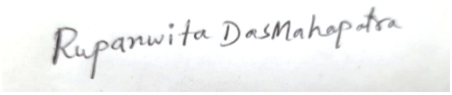
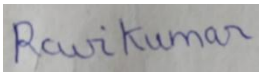
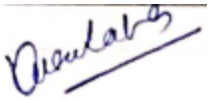
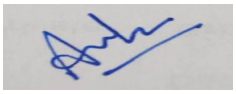
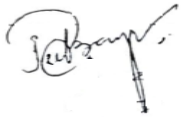
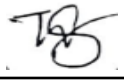
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
7TH DEPARTMENTAL COUNCIL/ BOARD OF STUDIES MEETING FOR AY 2020-21
7TH SEPTEMBER, 2021

Members present:

Sl No	Name	Position in BoS	Signature
1	Mrs. Rupanwita Das Mahapatra, Assistant Professor& In-Charge	Chairperson	
2	Dr Ravi Kumar, Associate Professor, E & CE, Thaper Inst of Engg and Tech, Patiala, Punjub	Expert from Academia	
3	Dr. Kusum Lata,Associate Professor, E & CE, LNM Institute of Information Technology,JaipurExternal Member	Expert from Academia	
4	Mr Ankur Sangal, Senior Application Engineer, CoreEL Technology, Bangalore	Expert from Industry	
5	Mr. Nisarga Chand, Assistant Professor	Member	
6	Mr. Jeet Banerjee, Assistant Professor	Member	
7	Mr. Tulip Kumar Saha, Assistant Professor	Member	
8	Dr. SulagnaChatterjee, Assistant Professor	Member	
9	Mrs. Sanchita Roy Mallick, Assistant Professor	Member	

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADAMAS UNIVERSITY

Minutes of 7th Board of Studies (BOS) / Departmental Council (DC) Meeting

07/09/2021

Mrs. Rupanwita Das Mahapatra In-Charge, Dept. of Electronics and Communication Engineering (ECE), welcomed the external members and discussed the following agenda in presence of all the Board of Studies members.

Item.1: Addition of Value-added Courses in syllabus of 3rd,4th,5th and 6th sem have been proposed to be offered in UG Program B. Tech (Electronics and Communication Engineering)

Proposition: Based on **industry experts, faculty, alumni & students' feedback** and keeping in mind the increasing focus of cutting-edge technologies and Interdisciplinary Research in the field of Electronics, value added courses need to be introduced.

3rd sem-Cyber Security
4th sem-Python Programming
5th-Introduction to IOT
6th-AI in ECE

Item.2: Changes in the content of a few Courses in UG Program B. Tech (Electronics and Communication Engineering)

Proposition: According to the academic and industry experts and recent student and faculty feedback taken by Internal Quality Assurance Cell (IQAC), particular changes need to be made in the following courses in terms of content.

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a) Microprocessor and Microcontroller(ECE11010)

b) VLSI Systems Design(ECE11015)

Item. 3: Two specializations offered by Electronics and Communication Engineering Department has to be removed in for AY2021-22.

Department of Electronics and Communication Engineering offered two Specialization: IoT and Embedded Systems; Robotics

in ECE Program in AY 2020-21 for the students with 20 strength but as there is no students found so that we have removed these programs.

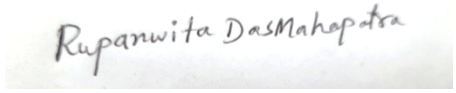
Item. 4: M. Tech in ECE has to be removed in Electronics and Communication Engineering Department for AY2021-22.

Department of Electronics and Communication Engineering offered M.Tech in ECE Program in AY 2020-21 for the students with 18 strength but as there is no students found so that we have removed this program.

Item 5: Miscellaneous

As suggested by the external experts to keep minor before starting Capstone Project but SOET Leadership has decided to keep it as Capstone Project.

The meeting concluded with a vote of thanks by the Chair, Mrs. Rupanwita Das Mahapatra. The minute is issued in concurrence with the Dean, SOET. Issued By



Mrs Rupanwita Das Mahapatra
Assistant Professor and In-Charge,
Department of ECE

Date: 07.09.2021

Annexure-I

Proposed Course Structure of B. Tech (Electronics and Communication Engineering) for AY 2021-22

SEMESTER I								
S. No	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1	Theory	**MTH11501**	Engineering Mathematics-I	3	1	0	4	4
2	Theory	**PHY11201**	Applied Science	3	0	0	3	3
3	Theory	**CSE11001 / GEE11001**	Introduction to Programming / Electrical and Electronics Technology	3	0	0	3	3
4	Theory	**ENG11053**	HSSM –I (English Communication- I)	3	0	0	3	3
5	Theory	**BIT11003**	Life Sciences	3	0	0	3	3
6	Practical	**PHY12202**	Applied Science Lab	0	0	3	3	2
7	Practical	**CSE12002 / GEE12002**	Programming Lab / Electrical and Electronics Technology Lab	0	0	3	3	2
8	Practical	**CEE12001/ MEE12001**	Engineering Drawing and CAD/Engineering Workshop	0	0	3	3	2
9	Practical	**ENG11043**	Communication and Collaboration Skill -I	0	0	2	2	1
10	Project	**GEE14003**	Capstone Project-I Minor Project-I	0	0	2	2	1
11	Theory	**DGS11001**	Design Thinking	2	0	0	2	2
Total				**17**	**1**	**13**	**31**	**26**

SEMESTER II								
S. No	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1.	Theory	**MTH11502**	Engineering Mathematics– II	3	1	0	4	4
2.	Theory	**GEE11001 / CSE11001**	Electrical and Electronics Technology/ Introduction to Programming	3	0	0	3	3
3.	Theory	**MEE11002**	Engineering Mechanics	3	1	0	4	4
4.	Theory	**EVS11107**	Environmental Science	3	0	0	3	3
5.	Practical	**GEE12002/ CSE12002**	Electrical and Electronics Technology Lab/ Programming Lab	0	0	3	3	2
6.	Practical	**MEE12001/ CEE12001**	Engineering Workshop/Engineering Drawing and CAD	0	0	3	3	2
7.	Practical	**ENG12044**	Communication and Collaboration Skill -II	0	0	2	2	1
8.	Project	**GEE14004**	Capstone Project-II Minor Project-II	0	0	2	2	1
Total				**12**	**2**	**15**	**24**	**20**

Total Credits (First Year): 46

SECOND YEAR

Semester-III								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	MTH11526	Engineering Mathematics– III (Transform Calculus & Special functions)	3	0	0	3	3
2.	Theory	ECO11505	HSSM –IV (Economics for Engineers)	3	0	0	3	3
3.	Theory	ECE11001	Prof. Core- I (Electronic Devices)	3	0	0	3	3
4.	Theory	ECE11002	Prof. Core- II (Analog Electronic Circuits)	3	0	0	3	3
5.	Theory	ECE11003	Prof. Core- III (Signals and Networks)	3	0	0	3	3
6.	Theory	ECE11004	Choice of Dept. (Electromagnetic Fields)	3	0	0	3	3
7.	Practical	ECE12005	Prof. Core-II Lab (Analog Electronic Circuits Lab)	0	0	3	3	2
8.	Practical	ECE12006	Prof. Core-III Lab (Signals and Networks Lab)	0	0	3	3	2
9.	Project	**GEE14005**	Capstone Project-I	0	0	2	2	1
10.	Internship	**SOC14100**	Community Service[#]	--	--	-	--	1
11.	Theory	**EIC11001**	Venture Ideation	2	0	0	2	2
12.			Value Added Course(Cyber Secuirity)					
13.		**IDP**	Interdisciplinary Project				5	3
Total				**20**	**0**	**08**	**33**	**29**

 # CS Activity will be taken up during the summer break after 2nd semester, and will be evaluated in the 3rd semester.

Semester-IV								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	MTH11527	Engineering Mathematics– IV (Probability, Statistics and Numerical Methods)	3	0	0	3	3
2.	Theory	ECE11007	Prof. Core- IV (Digital Electronics)	3	0	0	3	3
3.	Theory	ECE11008	Prof. Core- V (Communication Systems-I)	3	0	0	3	3

4.	Theory	ECE11009	Prof. Core- VI (Digital Signal Processing)	3	0	0	3	3
5.	Theory	ECE11010	Prof. Core- VII (Microprocessors and Microcontrollers)-Syllabus need to change	3	0	0	3	3
6.	Theory	**PSG11021**	Human Values and Professional Ethics	2	0	0	2	2
7.	Practical	ECE12011	Prof. Core- IV Lab (Digital Electronics Lab)	0	0	3	3	2
8.	Practical	ECE12012	Prof. Core- VI Lab (Digital Signal Processing Lab)	0	0	3	3	2
9.	Practical	ECE12013	Prof. Core- VII Lab (Microprocessors and microcontrollers Lab)	0	0	3	3	2
10.	Practical	**GEE14006**	Capstone Project -II	0	0	2	2	1
11.			Value Added course-Python programming					
Total				**17**	**0**	**11**	**28**	**24**

Total Credits (Second Year): 53

THIRD YEAR

Semester-V								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	ECE11014	Prof. Core- VIII (Communication Systems-II)	3	1	0	4	4
2.	Theory	ECE11015	Prof. Core- IX (VLSI Systems Design)	3	1	0	4	4
3.	Theory	ECE11016	Prof. Core- X (Embedded Systems Design)	3	0	0	3	3
4.	Theory	ECE11017 / ECE11018 / ECE11019	Prof. Elective- I (Data Communication and Computer Networks / Optical Fiber Communication/ Biomedical Electronics)	3	0	0	3	3
5.	Practical	ECE12020	Prof. Core- VIII Lab (Communication Systems Lab)	0	0	3	3	2
6.	Practical	ECE12021	Prof. Core- IX Lab (VLSI Systems Design Lab)	0	0	3	3	2
7.	Practical	ECE12022	Prof. Core- X Lab (Embedded System Design Lab)	0	0	3	3	2
8.	Project	**GEE14007**	Capstone Project -III	0	0	2	2	1

9.			Value added Course-Introduction to IOT					
Total				**12**	**2**	**11**	**25**	**21**

 # CSR Activity will be taken up during the summer break after 2th semester and will be evaluated in the 3rd semester.

Semester-VI								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	ECE11023	Prof. Core- XI (Control Systems)	3	0	0	3	3
2.	Theory	ECE11024	Prof. Core- XII (Microwave Engineering)	3	0	0	3	3
3.	Theory	ECE11025 / ECE11026 / ECE11027	Prof. Elective- II (Antenna & Wave Propagation / Power Electronics / Adaptive Signal Processing)	3	0	0	3	3
4.	Theory		Open Elective- I	2	0	0	2	2
5.	Practical	ECE12028	Prof. Core- XI Lab (Control Systems Lab)	0	0	3	3	2
6.	Practical	ECE12029	Prof. Core- XII Lab (Microwave Engineering Lab)	0	0	3	3	2
7.	Practical	ECE12030 / ECE12031 / ECE12032	Prof. Elective- II Lab (Antenna & Wave Propagation Lab/ Power Electronics Lab/ Adaptive Signal Processing Lab)	0	0	3	3	2
8.	Seminar	ECE15033	Technical Seminar	0	0	2	2	1
9.			Value added Course-AI in ECE					
Total				**11**	**0**	**11**	**22**	**18**

Total Credits (Third Year): 39

****More Electives in Elective Baskets**

FOURTH YEAR

Semester-VII

S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs/week	Credits
1.	Theory	**MGT11402**	HSSM –V (Industrial Management)	3	0	0	3	3
2.	Theory	ECE11034/ ECE11035/ ECE11036	Prof. Elective- III (Wireless Communication/ Image & Video Processing / Low Power VLSI Design)	3	0	0	3	3
3.	Theory		Open Elective- II	3	0	0	3	3
4.	Theory		Open Elective- III	3	0	0	3	3
5.	Practical	ECE12037/ ECE12038/ ECE12039	Prof. Elective- III Lab (Wireless Communication Lab/ Image & Video Processing Lab/ Low Power VLSI Design Lab)	0	0	3	3	2
6.	Internship/Training	ECE14040	#Summer Internship	--	--	--	--	2
7.	Project	ECE14041	Minor Project	0	0	6	6	3
Total				**12**	**0**	**9**	**21**	**19**

 # Summer Internship for 30 days will be taken at the end of 6th semester, and will be evaluated in the 7th semester.

Semester-VIII								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Project	ECE14042/ ECE14043/ ECE14044	Industry Work Experience / SIRE* / Major Project	0	0	6	6	4
2.	Viva	ECE15045	Comprehensive Viva Voce	------			------	2
Total				**0**	**0**	**6**	**6**	**6**

***SIRE: Scientific Investigation & Research Experience**

Total Credits (Fourth Year): 25

****More Electives in Elective Baskets**

Total Credits (Over four years): 46+53+39+25 = 163

Electives:

1. Python Basics for IOT
2. Machine Learning
3. Artificial Intelligence and Soft Computing
4. Artificial Intelligence and Soft Computing Lab
5. Cloud Computing
6. Cloud Computing Lab