



The ICFAI University, Tripura

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Ref: IUT/ECE/2015-16/01

Date: 08/01/2016

Minutes of the Meeting of the Board of Studies(BOS) held on 8th January 2016 at 11:30 AM in Board Room regarding the programme of B.Tech in Electronics and Communication Engineering

Members Present in the meeting-

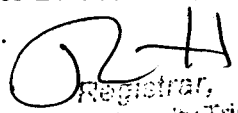
1. Prof. Biplab Halder, Pro-Vice Chancellor, ICFAI University, Tripura (Chairperson).
2. Dr. P.R. Borthakur (Coordinator, Faculty of Science and Technology, ICFAI University, Tripura).
3. Prof. T. K. Mohanta (HoD, Electronics and Communication Engineering, ICFAI University, Tripura).
4. Prof. Debarshita Biswas (Internal member, Assistant Professor, Electronics and Communication Engineering, ICFAI University, Tripura).
5. Dr. T. K. Basu (External member, Retired Professor, IIT Kharagpur), joined through video conferencing.

Agenda -

- I. Modification of syllabus for B.Tech in Electronics and Communication Engineering (Programme Code – FST004).
- II. List of elective papers to be included in the aforesaid programme.
- III. Credit distribution for B. Tech in Electronics and Communication Engineering.
- IV. Any other with the approval of the chair.

Minutes of meeting -


- I. The chairperson welcomed the members and introduced external BOS member to the board and further internal members introduced themselves.
- II. Chairperson advised the coordinator of FST to proceed with the meeting as per the agendas.
- III. HoD, ECE made a presentation on the proposed curriculum for B. Tech in ECE and discussed the new courses which need to be introduced in the programme.


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- IV. It was unanimously resolved that the modification (refer Annexure I) of the syllabus in the existing programme was approved by the members of BOS and it was decided that the said revision (marked in yellow) will be sent to the Academic Council of the university for the final approval.
- V. It was resolved that the course-specific outcome and program outcome should be well defined and should get integrated into the current syllabus.
- VI. Regarding the list of elective courses, the list of elective courses was produced by the HoD, ECE which would be offered for the programme.
- Elective Courses for B. Tech in ECE programme –


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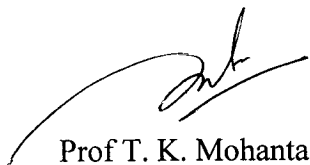
Course Code	Course Title	L T P U
EC 401	Telecom Switching Systems and Networks	3 0 0 3
EC 431	Image Processing	3 0 0 3
EC422	Digital Hardware Design	3 0 0 3
EC 432	Fiber Optics and Optoelectronics	3 0 0 3
EC 406	Television Engineering	3 0 0 3
EC 419T	Mask Design	3 0 0 3
EC 419P	Mask Design Practical	0 0 3 2
EC 420	Analog and Digital VLSI Design	3 0 0 3
EC 325	Data Communication Systems	0 0 3 2
EC 433	Data compression and Encryption	3 0 0 3
EC 423T	Digital Design using HDL's	3 0 0 3
EC 423P	Digital Design using HDL's Practical	0 0 3 2
EC 424	Mobile Telecommunication Networks	3 0 0 3
EC 426	Random Signal Processing	3 0 0 3
EC 428	Wireless Communication Networks	3 0 0 3
EC 434	Digital Image Processing	3 0 0 3
EC 435	Embedded Systems	3 0 0 3
EC 436	Industrial Auto Maition & Control	3 0 0 3
EC 437	Advance Control Systems	3 0 0 3


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VII. With regards to the number of credits for courses, all members of the board agreed that each theory course offered by the Electronics and Communication Engineering should be worth 3 credits and each practical course should be worth 2 credits.

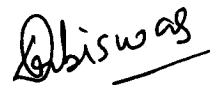
VIII. Course codes of a few courses were modified.

IX. The meeting got successfully concluded with a Vote of Thanks from the chairperson.



Prof T. K. Mohanta

(HoD, ECE, FST)



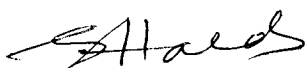
Prof. Debarshita Biswas

(Internal Member, ECE, FST)



Dr. P.R. Borthakur

(Co ordinator, FST)



Chairperson

Board of Studies

Electronics and Communication Engineering

Faculty of Science and Technology

ICFAI University, Tripura

Pro-Vice Chancellor,


ICFAI University, Tripura
Kamaighat, West Tripura.



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Annexure IExisting program structure of B. Tech in Electronics and Communication Engineering up to July, 2016

Year	Course #	I Semester	L P U	Course #	II Semester	L P U
I	CHEMC 111	Chemistry	3 0 3	AOC 121	Probability	3 0 3
	ELS 112	English Language Skills	3 0 3	ESC 122	Thermodynamics	3 0 3
	MATHC 113	Linear Algebra	3 0 3	MATHC 123	Higher Calculus	3 0 3
	PHYC 114	Physics	3 0 3	SCIC 124	Environmental Science	2 0 2
	TAC 115	Engineering graphics	2 4 4	TAC 125	Workshop Practice	2 4 4
	TAC 116	Computer Programming	3 0 3	TAC 126	Computer Programming II	3 0 3
					HUMC 127	Introduction to Psychology
Total No of Credits			19	Total No of Credits		21
II	ESC 211	Electrical Sciences I	3 0 3	ESC 221	Electrical Sciences II	3 0 3
	MATHC 212	Complex Variables	3 0 3	ESC 222	Structure & Properties of Materials	3 0 3
	MATHC 213	Differential Equations & Fourier Series	3 0 3	TAC 223	Measurement Techniques-II	0 6 3
	ECONC 214	Principles of Economics	3 0 3	MGTSC 224	Principles of Management	3 0 3
	TAC 215	Professional Communication	3 0 3	HUMC 225	Dynamics of Social Change	3 0 3
	ESC 216	Mechanics of Solids	3 0 3	CSC/ECC/EEC 221	Digital Electronics & Computer Organization	2 2 3
	TAC 217	Measurement Techniques-I	0 4 2	ECC 222	Signals & Systems	3 0 3
	Total No of Credits			20	Total No of Credits	


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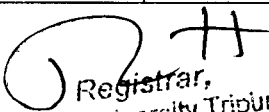
SUMMER TERM		IP 221 INTERNSHIP PROGRAMME I (for Internship option only)				05
III	AOC 311	Operations Research	3 0 3	AOC 321	Statistical Methods	3 0 3
	AOC 312	Control Systems	3 0 3	AOC 322	Numerical Methods	3 0 3
	CSC/ECC/EEC 311	Microprocessor Programming & Interfacing	3 0 3	ECC 321	Analog Electronics	2 2 3
	ECC 312	Communication Systems	3 2 4	ECC 322	Analog & Digital VLSI Design	3 0 3
	ECC 313	Electromagnetic Fields & Waves	3 0 3	ECC 323	RF & Microwave Engineering	3 2 4
	ECC 314	Microelectronic Circuits	3 0 3	ECC 324	Satellite Communication	3 0 3
	ECC 315	Digital Signal Processing	3 0 3	ECC 325	Mobile Communication	3 0 3
	Total No of Credits			22	Total No of Credits	
IV	IP 401	Internship Programme II	20	ECC 411	Digital Systems	3 0 3
	TS 401	Thesis& Seminar	15	ECC 412	Microcontroller & Applications	2 2 3
				SCIC 401	Environmental Science	2 0 2
				-----	Electives (4)	
	ECC 411	Digital Systems	3 0 3	IP 401	Internship Programme II	20
	ECC 412	Microcontroller & Applications	2 2 3	TS 401	Thesis& Seminar	15
Total No of Credits			20/15	Total No of Credits		20/15

List of Electives 4th Year Semester-I

Course Code	Course Title	L T P U
EC 401	Telecom Switching Systems and Networks	3 0 0 3
EC 431	Image Processing	3 0 0 3
EC 434	Digital Image Processing	

List of Electives 4th Year Semester-II

Course Code	Course Title	L T P U
EC 420T	Analog and Digital VLSI Design	3 0 0 3
EC 420P	Analog and Digital VLSI Design Practical	0 0 3 2
EC 433	Data compression and	3 0 0 3


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		3 0 0 3		Encryption	
EC 432	Fiber Optics and Optoelectronics	3 0 0 3	EC 423T	Digital Design using HDL's	3 0 0 3
EC 406	Television Engineering	3 0 0 3	EC 423P	Digital Design using HDL's Practical	0 0 3 2
EC 419T	Mask Design	3 0 0 3	EC 424	Mobile Telecommunication Networks	3 0 0 3
EC 419P	Mask Design Practical	0 0 3 2	EC 426	Random Signal Processing	3 0 0 3
EC 401	Telecom Switching Systems and Networks	3 0 0 3	EC 428	Wireless Communication Networks	3 0 0 3

Revised program structure of B. Tech in Electronics and Communication Engineering with effect from August, 2016

**B. Tech (Electronics and Communication Engineering)
(Program Code-FST004)**


Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
1st	MA 111	MATHEMATICS I	3	0	3	ES111	THERMODYNAMICS	3	0	3	
	PH 111	PHYSICS I	3	0	3	ES121	ENGINEERING MECHANICS	3	0	3	
	CH 111	CHEMISTRY	3	0	3	MA 121	MATHEMATICS II	3	0	3	
	TA 104	PHYSICAL SCIENCES LAB I	0	3	1	PH 121	PHYSICS II	3	0	3	
	TA 102	WORKSHOP	2	4	4	TA 105	PHYSICAL SCIENCES LAB II	0	2	1	
	ENV122	ENVIRONMENTAL SCIENCE	3	0	3	TA 101	ENGINEERING GRAPHICS	2	4	4	
	EGL111	ENGLISH LANGUAGE SKILL	3	0	3	TA121 T	C PROGRAMMING	3	0	3	
						TA121 P	C PROGRAMMING PRACTICAL	0	3	2	
Total No. of Credits			20			Total No. of Credits			22		

Year	Semester-I					Semester-II				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U


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		3	0	3	ECN201	PRINCIPLES OF ECONOMICS	3	0	3	
		0	3	2	MA212	PROBABILITY AND STATISTICS	3	0	3	
	CS 212T	3	0	3	EC217	EM FIELDS & WAVES	3	0	3	
	CS 212 P	0	3	2	CS311T	DATABASE MANAGEMENT SYSTEM	3	0	3	
	EC 221	3	0	3	CS311P	DATABASE MANAGEMENT SYSTEM PRACTICAL	0	3	2	
2nd		3	0	3	EC224T	NETWORK THEORY	3	0	3	
		0	3	2	EC224 P	NETWORK THEORY PRACTICAL	0	3	2	
	TA204/ EGL 233	3	0	3	EC222 T	MICROPROCESSOR PROGRAMMING AND INTERFACING	3	0	3	
	MA 211	3	0	3	EC222 P	MICROPROCESSOR PROGRAMMING AND INTERFACING PRACTICAL	0	3	2	
	Total No. of Credits		24			Total No. of Credits			24	
Summer Term	IP201	Internship Program-I						0	0	5

Year	Semester-I					Semester-II				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U
3rd	MA 309	NUMERICAL ANALYSIS	3	0	3		HUMANITIES ELECTIVE II	3	0	3
	EC 324	SIGNALS & SYSTEM	3	0	3	EC325	RADAR SYSTEM	3	0	3
	EC 313T	ANALOG ELECTRONICS	3	0	3	EC328T	DIGITAL SIGNAL PROCESSING	3	0	3
	EC 313P	ANALOG ELECTRONICS PRACTICAL	0	3	2	EC328P	DIGITAL SIGNAL PROCESSING PRACTICAL	0	3	2
	EC 315T	CONTROL SYSTEMS	3	0	3			3	0	3
	EC315 P	CONTROL SYSTEMS PRACTICAL	0	3	2			0	3	2


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CS312T	PROGRAMMING WITH JAVA	3	0	3	EC327T	ELECTRICAL & ELECTRONICS MEASUREMENTS	3	0	3
CS312P	PROGRAMMING WITH JAVA PRACTICAL	0	3	2	EC327P	ELECTRICAL & ELECTRONICS MEASUREMENTS PRACTICAL	0	3	2
EC323T	LINEAR INTEGRATED CIRCUITS AND APPLICATION	3	0	3	CS323	COMPUTER ORGANIZATION AND ARCHITECTURE	3	0	3
EC323P	LINEAR INTEGRATED CIRCUITS AND APPLICATION PRACTICAL	0	3	2					
SSU354	SOFT SKILLS	3	0	2					
Total No. of Credits		28			Total No. of Credits		24		

Summer Term	IP301	Internship Program-II							0	0	5
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Year	Semester-I					Semester-II				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U
4th	EC402T	VLSI DESIGN	3	0	3	EC402T	VLSI DESIGN	3	0	3
	EC402P	VLSI DESIGN PRACTICAL	0	3	2	EC402P	VLSI DESIGN PRACTICAL	0	3	2
	EC407T	MICRO CONTROLLERS AND APPLICATIONS	3	0	3	EC427	SATELLITE COMMUNICATION SYSTEMS	3	0	3
	EC407P	MICRO CONTROLLERS AND APPLICATIONS PRACTICAL	0	3	2		ELECTIVE 3	3	0	3
	EC430T	RF & MICROWAVE ENGINEERING	3	0	3	GV403	GRAND VIVA	0	0	3
	EC430P	RF & MICROWAVE ENGINEERING PRACTICAL	0	3	2	EC492	SPECIAL PROJECT II	0	0	5
		ELECTIVE 1	3	0	3					
		ELECTIVE 2	3	0	3					
	EC491	SPECIAL PROJECT I	0	0	5					
	Total No. of Credits		26			Total No. of Credits		19		

List of Electives 4th Year Semester-I

Course Code	Course Title	L	T	P	U
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List of Electives 4th Year Semester-II

Course Code	Course Title	L	T	P	U
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EC 401	Telecom Switching Systems and Networks	3 0 0 3
EC 431	Image Processing	3 0 0 3
EC 434	Digital Image Processing	3 0 0 3
EC 432	Fiber Optics and Optoelectronics	3 0 0 3
EC 406	Television Engineering	3 0 0 3
EC 419T	Mask Design	3 0 0 3
EC 419P	Mask Design Practical	0 0 3 2
EC 401	Telecom Switching Systems and Networks	3 0 0 3

EC 420	Analog and Digital VLSI Design	3 0 0 3
EC422	Digital Hardware Design	3 0 0 3
EC 433	Data compression and Encryption	3 0 0 3
EC 423	Digital Design using HDL's	3 0 0 3
EC 325	Data Communication Systems	3 0 0 3
EC 424	Mobile Telecommunication Networks	3 0 0 3
EC 426	Random Signal Processing	3 0 0 3
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