



EEE BOS

The ICFAI University, Tripura

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No: EEE/BOS/1a/2016-17

Date: 07.07.2016

Minutes of the Meeting of the Board of Studies(BOS) held on 7th July 2016 at 11:00 AM in Board Room regarding the programme of B.Tech in Electrical & Electronics Engineering

MINUTES OF THE MEETING

The BOS meeting with all the internal and external members of Electrical and Electronics Engineering (EEE), FST was held on 07.07.2016. External member participated via Skype platform.

The following members were present:

- I. Prof. Biplab Halder, Pro-Vice Chancellor, ICFAI University, Tripura (Chairperson).
- II. Dr. P.R. Borthakur (Coordinator, Faculty of Science and Technology, ICFAI University, Tripura).
- III. Prof. Tapan Mohanta, (Internal member, HOD, ECE & EEE/Assistant Professor)
- IV. Prof. Rita Banik, (Internal member, Assistant Professor, EEE)
- V. Dr. T. K. Basu, (External member, Retired Professor, IIT Kharagpur)

Agenda:

- I. Modification of syllabus for B.Tech in Electrical & Electronics Engineering (Programme Code – FST005).
- II. List of elective papers to be included in the aforesaid programme.
- III. Credit distribution for B.Tech in Electrical & Electronics Engineering.
- IV. Any other with the approval of the chair.

Minutes of the meeting:


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1. HOD presented the existing course structure of the EEE department.
2. Long discussions were made on the courses offered in different semesters.
3. Subsequently, all the members unanimously agreed to the modification of the courses.
4. After thorough discussion, the courses were restructured. The existing and new structure is enclosed herewith.
5. The summary of the revision is outlined in Annexure A.
6. The detailed changes in the courses' program structure can be found in Annexure B.
7. 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 will be sent to the Academic Council of the university for the final approval.
8. It was resolved that the course-specific outcome and program outcome should be well defined and should get integrated into the current syllabus.
9. Regarding the list of elective courses, the list of elective courses was produced by the HoD, which would be offered for the programme.
 - Elective Courses for B.Tech in EEE programme –

Electives for BTech (EEE) (Any three to be opted)					
Sl. No	Course No	Course Title	L	P	U
1	EE401	Advanced Control System	3	0	3
2	EE402	Electric Power Utilization and Illumination	3	0	3
3	EE403	HVDC Transmission and Fact	3	0	3
4	EE404	Design of Electrical Systems	3	0	3
5	EE405	Communication Techniques	3	0	3
6	EE406	Instrumentation	3	0	3
7	CS413T	Object Oriented Programming through Java	3	0	3
8	CS413P	Object Oriented Programming through Java Practical	0	3	2
9	EE408	Renewable Sources of Electrical Energy	3	0	3
10	EE409	Reliability and Safety Engineering	3	0	3


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11	EE410	VLSI Design	3	0	3
12	EE414	Special Electro-Mechanical Systems	3	0	3
13	EE415	Power Quality	3	0	3
14	EC416	Digital Signal Processing	3	0	3
15	EC416P	Digital Signal Processing Practical	0	3	2

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

11. Course codes of a few courses were modified.

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



Prof. Tapan Mohanta
(HoD, ECE, FST)



Prof. Rita Banik
(Internal Member, EEE, FST)



Dr. P.R. Borthakur
(Co ordinator, FST)



Prof. Biplab Halder
Pro Vice Chancellor,
Chairperson Board of Studies
Electrical & Electronics Engineering
Faculty of Science and Technology
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Annexure I

Existing program structure of B.Tech in Electrical & Electronics Engineering up to July, 2018

**B. Tech (Electrical and Electronics Engineering)
(Program Code: FST005)**

	SEMESTER I 2015-16			SEMESTER II 2015-16		
	Course No	Course Title	L P U	Course No	Course Title	L P U
YEAR I	MA111	Mathematics I	3 0 3	MA121	Mathematics II	3 0 3
	PH111	Physics I	3 0 3	PH121	Physics II	3 0 3
	CH111	Chemistry	3 0 3	ENV122	Environmental science	3 0 3
	TA104	Physical Sciences Lab I	0 3 1	TA105	Physical Sciences Lab II	0 3 1
	ES111	Thermodynamics	3 0 3	ES121	Engineering Mechanics	3 0 3
	TA101	Engineering Graphics	2 4 4	TA102	Workshop Practice	2 4 4
	TA111	Computer Programming I	2 2 3	TA121	C Programming	3 0 3
			English Language Skills		TA121	C Programming Practical
Summer Term	SEMESTER I 2016-17			SEMESTER II 2016-17		
YEAR II	Course No	Course Title	L P U	Course No	Course Title	L P U
	CS212T	Oops through C++	3 0 3	EC217	EM Fields & waves	3 0 3
	CS212P	Oops through C++ lab	0 3 2	EC224T	Network theory	3 0 3
	MA211	Mathematics III	3 0 3	EC224P	Network theory lab	0 3 2
	TA204/EGL233	Technical Report Writing	3 0 3	ECN201	Principles of Economics	3 0 3
	ES211T	Basic Electrical & Electronics Engineering	3 0 3	MA212	Probability and Statistics	3 0 3
	ES211P	Basic Electrical & Electronics Engineering lab	0 3 2	EC221	Electronic Devices and Circuits	3 0 3
	EC222T	Microprocessor Programming & Interfacing	3 0 3	EE223	Power systems -1	3 0 3


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	EC222P	Microprocessor Programming & Interfacing Lab	0 3 2			
	EC211T	Digital Logic Design	3 0 3			
	EC211P	Digital Logic Design Lab	0 3 2			
Summer Term	IP201	Internship Program I (May 3 rd week to July 3 rd week)				0 0 5
	SEMESTER I 2017-18			SEMESTER II 2017-18		
YEAR III	Course No	Course Title	L P U	Course No	Course Title	L P U
	MA309	Numerical analysis	3 0 3	HSS361	Humanities & Social Sciences Elective	3 0 3
	EE312	Power systems -II	3 0 3	EE321T	Electrical Machines-II	3 0 3
	EC324	Signals & System	3 0 3	EE321P	Electrical Machines-II lab	0 3 2
	EE311T	Electrical Machines-1	3 0 3	EE322	Powers system analysis	3 0 3
	EE311P	Electrical Machines-1 lab	0 3 2	EC327T	Electrical & electronics measurements	3 0 3
	EC313T	Analog Electronics	3 0 3	EC327P	Electrical & electronics measurements lab	0 3 2
	EC313P	Analog electronics lab	0 3 2	ES223T	Fluid Mechanics	3 0 3
				ES223P	Fluid Mechanics Practical	0 3 2
	EC315T	Control Systems	3 0 3	EE323T	Power electronics	3 0 3
	EC315P	Control Systems lab	0 3 2	EE323P	Power electronics lab	0 3 2
	OC311	Soft Skills(Audit Course)*			Comprehensive	0 0 2
	Summer Term	IP2	Professional Development Programs(May 3 rd week to July 3 rd week)			
	SEMESTER I 2018-19			SEMESTER II 2018-19		
YEAR IV	Course No	Course Title	L P U	Course No	Course Title	L P U
	EE411	Electrical Machine Design	3 0 3	EE421	Power semiconductor drives	3 0 3
	EE412	Switch gear and protection	3 0 3	EE422	Electrical distribution systems	3 0 3


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EC407T	Micro controllers and applications	3 0 3		ELECTIVE-3	3 0 3
EC407P	Micro controllers and applications lab	0 3 2			
	ELECTIVE-1	3 0 3	EE492	Special Project II	0 0 5
	ELECTIVE-2	3 0 3	GV405	Grand Viva	0 0 3
EE491	Special Project I	0 0 5			

Electives for BTech (EEE)					
Sl. No	Course No	Course Title	L	P	U
1	EE401	Advanced Control System	3	0	3
2	EE402	Electric Power Utilization and Illumination	3	0	3
3	EE403	HVDC Transmission and Fact	3	0	3
4	EE404	Design of Electrical Systems	3	0	3
5	EE405	Communication Techniques	3	0	3
6	EE406	Instrumentation	3	0	3
7	CS413T	Object Oriented Programming through Java	3	0	3
8	CS413P	Object Oriented Programming through Java Practical	0	3	2
9	EE408	Renewable Sources of Electrical Energy	3	0	3
10	EE409	Reliability and Safety Engineering	3	0	3
11	EE410	VLSI Design	3	0	3
12	EE414	Special Electro-Mechanical Systems	3	0	3
13	EE415	Power Quality	3	0	3
14	EC416	Digital Signal Processing	3	0	3
15	EC416P	Digital Signal Processing Practical	0	3	2


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Revised program structure of B.Tech in Electrical & Electronics Engineering with effect from August, 2018

**B. Tech (Electrical and Electronics Engineering)
(Program Code: FST005)**

	SEMESTER I 2016-17			SEMESTER II 2016-17		
	Course No	Course Title	L P U	Course No	Course Title	L P U
YEAR I	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 101	Engineering Graphics	2 4 4	TA 105	Physical Sciences Lab II	0 2 1
	ENV122	Environmental Science	3 0 3	TA 102	Workshop	2 4 4
	EGL101	English Language Skill	3 0 3	TA121 T	C Programming	3 0 3
	TA 101	Engineering Graphics	2 4 4	TA121 P	C Programming Practical	0 3 2
Summer Term	IP101	Summer Internship Program (May 3 rd week to July 3 rd week)				0 0 5
	SEMESTER III 2017-18			SEMESTER IV 2017-18		
	Course No	Course Title	L P U	Course No	Course Title	L P U
YEAR II	EC211T	Digital Logic Design	3 0 3	ECN201	Principles of Economics	3 0 3
	EC211 P	Digital Logic Design Practical	0 3 2	MA212	Probability and Statistics	3 0 3
	CS 212T	Object Oriented Programming C++	3 0 3	ME222T	Fluid Mechanics	3 0 3
	CS 212 P	Object Oriented Programming C++ Practical	0 3 2	ME222P	Fluid Mechanics Practical	0 3 2
	EC 221	Electronic Devices and Circuits	3 0 3	EC217	EM Fields & Waves	3 0 3
	ES 211T	Basic Electrical & Electronics Engineering	3 0 3	EC224T	Network Theory	3 0 3
	ES 211P	Basic Electrical & Electronics Engineering Practical	0 3 2	EC224 P	Network Theory Practical	0 3 2


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	TA204	Technical Report Writing	3 0 3	EC222 T	Microprocessor Programming and Interfacing	3 0 3
	MA 211	Mathematics III	3 0 3	EC222 P	Microprocessor Programming and Interfacing Practical	0 3 2
Summer Term	IP201	Internship Program I (May 3 rd week to July 3 rd week)				0 0 5
	SEMESTER V 2018-19			SEMESTER VI 2018-19		
YEAR III	Course No	Course Title	L P U	Course No	Course Title	L P U
	MA 309	Numerical Analysis	3 0 3	HS304	Dynamics of Social Changes	3 0 3
	EC 324	Signals & System	3 0 3	EE 312	Power Systems II	3 0 3
	EC 313T	Analog Electronics	3 0 3	EE321T	Electrical Machines II	3 0 3
	EC 313P	Analog Electronics Practical	0 3 2	EE321P	Electrical Machines II Lab	0 3 2
	EC 315T	Control Systems	3 0 3	EE322	Powers System Analysis	3 0 3
	EC315 P	Control Systems Practical	0 3 2	EC327T	Electrical & Electronics Measurements	3 0 3
	EE223	Power Systems I	3 0 3	EC327 P	Electrical & Electronics Measurements Practical	0 3 2
	EE 311T	Electrical Machines I	3 0 3	EE323T	Power Electronics	3 0 3
	EE 311P	Electrical Machines I Lab	0 3 2	EE323P	Power Electronics Practical	0 3 2
	SSU354*	Soft Skills	2 0 2		Comprehensive	0 0 2
Summer Term	IP301	Internship Program I I (May 3 rd week to July 3 rd week)				0 0 5
	SEMESTER VII 2019-20			SEMESTER VIII 2019-20		
YEAR IV	Course No	Course Title	L P U	Course No	Course Title	L P U
	EE411T	Electrical Machine Design	3 0 3	EE421	Power Semiconductor drives	3 0 3
	EE411P	Electrical Machines Design	0 3 2	EE422	Electrical Distribution	3 0 3


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	Lab			Systems	
EE412	Switch Gear and Protection	3 0 3	EE492	Special Project II	0 0 5
EC407T	Micro Controllers and Applications	3 0 3		Elective 3	
EC407P	Micro Controllers and Applications Practical	0 2 3	GV405	Grand Viva	0 0 3
	Elective 1				
	Elective 2				
EE491	Special Project I	0 0 5			

* **Audit Course**

Electives for BTech (EEE)					
Sl. No	Course No	Course Title	L	P	U
1	EE401	Advanced Control System	3	0	3
2	EE402	Electric Power Utilization and Illumination	3	0	3
3	EE403	HVDC Transmission and Fact	3	0	3
4	EE404	Design of Electrical Systems	3	0	3
5	EE405	Communication Techniques	3	0	3
6	EE406	Instrumentation	3	0	3
7	CS413T	Object Oriented Programming through Java	3	0	3
8	CS413P	Object Oriented Programming through Java Practical	0	3	2
9	EE408	Renewable Sources of Electrical Energy	3	0	3
10	EE409	Reliability and Safety Engineering	3	0	3
11	EE410	VLSI Design	3	0	3
12	EE414	Special Electro-Mechanical Systems	3	0	3
13	EE415	Power Quality	3	0	3
14	EC416	Digital Signal Processing	3	0	3
15	EC416P	Digital Signal Processing Practical	0	3	2


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