

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
F/O ENGINEERING & TECHNOLOGY
JAMIA MILLIA ISLAMIA, NEW DELHI – 110025

Minutes of the Board of Studies (B.O.S.) meeting, Department of Electronics & Communication Engineering held on 29th March 2016 at 2:30 p.m. in the office of the Head.

The following members were presents:

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|-----------------------|--------------------------|
| 1. Prof. Mainuddin | Deptt. of E&C (HOD) |
| 2. Prof. M.T. Beg | Deptt. of E&C |
| 3. Prof. S.N. Ahmad | Deptt. of E&C |
| 4. Prof. Moinuddin | Dean Engg. Jamia Hamdard |
| 5. Dr. Anwar Ahmad | Deptt. of E&C |
| 6. Dr. S.A. Imam | Deptt. of E&C |
| 7. Dr. S.A. Loan | Deptt. of E&C |
| 8. Dr. Dinesh Prasad | Deptt. of E&C |
| 9. Dr. Neelofer Afzal | Deptt. of E&C |
| 10. Ms. Amber Khan | Deptt. of E&C |

The following points were resolved:

1. The minutes of BOS meeting held on 16/11/2015 were confirmed.
2. Appointment of examiners for even semester B.Tech (E&C) 2016 were approved. The list is given in Annexure-I.
3. Allotment of teaching load for odd-semester B.Tech (E&C) & M.Tech (E&C) 2016-17 was approved. Annexure-II.
4. The matter of NBA accreditation of B.Tech (E&C) was discussed and Department felt that we should go for NBA accreditation along with other Departments in the light of letter received from Dean. Prof. M.T. Beg has been appointed as Chief Coordinator for the preparation of NBA accreditation. He is free to select his own team for this purpose.
5. The BOS discussed and approved CBCS based course structure of B.Tech (E&C). Annexure-III.
6. The BOS discussed and approved CBCS based course structure of M.Tech (E&C) (to be started in 2016-17). Annexure-IV.
7. BOS also approved the syllabus for entrance test for M.Tech (E&C). Annexure-V.
8. BOS approved the confirmation of topic of PhD students admitted in the Department of E&C Engg. in 2014. Annexure-VI.

9. Interview of PhD candidates were conducted in front of BOS under VIsvesvaraya scheme. BOS approved the provisional admission of six (06) candidates whose topics and supervisors are listed in Annexure VII. It was observed that out of 14 candidates who reported for interview, one candidate Shri Vivek Yadav S/o Shri Mahendre Pal Singh Yadav did not turn up for the interview before BOS till 5:45 p.m.

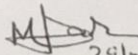
10. BOS members authorized HOD to appoint paper setters for M.Tech entrance test 2016-17.

11. BOS approved the extension of Mr. Md. Rashid Mahmood, PhD scholar for one year after the expiry of regular five years. The details are given below.

Name of Candidate	Date of Registration	Date of Expiry	Supervisor
Md. Rashid Mahmood	22/12/2010	21/12/2015	Prof. M.T. Beg

Topic: "Design and Simulation of Multiband Compact tunable Dielectric Resonator Filter on Novel DGS/EBG surface".

12. Applications of Non-Net scholarship for Ms. Vandana and Ms. Annu Tonk were discussed and approved,


29/03/2016

(Prof. Mainuddin)
Chairman

1. Dean, Faculty of Engineering & Technology, JMI
2. Secretary to Vice-chancellor, JMI
3. Registrar, JMI
4. Controller of Examinations, JMI
5. Prof. M.N. Doja Deptt of Computer Engineering, JMI
6. Prof. A.Q. Ansari Deptt. of Electrical Engineering, JMI
7. Prof. Moinuddin, Dean, Faculty of Management & Information Technology
Jamia Hamdard, Hamdard University, New Delhi-110062
8. Prof. Z.A. Abbasi Deptt. of Electronics AMU
9. Asstt. Registrar (A&C), JMI
10. Asstt. Registrar (Administration), RO
11. All faculty members of the Department

Department of Electronics and Communication Engineering
Jamia Millia Islamia
B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE
UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)
Effective from July 2016

Codes for nature of courses

L: Lecture courses
P: Laboratory Based courses
SEC: Skill Enhancement Courses
S: Seminar/ Independent Study

Category of Courses

DC: Departmental courses
CBCS: Choice based Credit System
AECC: Ability Enhancement Compulsory Course

Weight age for Course Evaluation

L Lecture T Tutorial P Practical CCA Continuous Class Assessment
MTE Mid Term Exam

B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING-II YEAR

S.No	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)					
					L	T	P	Mid Semester Evaluation			End Semester Evaluation	Total Marks	
								CCA	MSE-1	MSE-2			
01	AS-301	Engineering Mathematics	DC	4	3	1	-	10	15	15	60	100	
02	ECS-302	Analog Electronics-I	DC	4	3	1	-	10	15	15	60	100	
03	ECS-303	Circuit Analysis and Synthesis	AEC	4	3	1	-	10	15	15	60	100	
04	ECS-304	Electronic Measurements and Instrumentation	DC	4	3	1	-	10	15	15	60	100	
05	ECS-305	Logic Design	CBCS	4	3	1	-	10	15	15	60	100	
PRACTICAL (LAB.)													
06	ECS-310	Analog Electronics-I	DC	2	-	-	4	10	10	10	20	50	
07	ECS-311	Circuit Simulation Lab	DC	2	-	-	4	10	10	10	20	50	
	ECS-312	Logic Design	SEC	2	-	-	4	10	10	10	20	50	
Total				26								650	
Fourth Semester													
01	ECS-401	Analog Electronics-II	DC	4	3	1	-	10	15	15	60	100	
02	ECS-402	Signals and Systems	AEC	4	3	1	-	10	15	15	60	100	
03	ECS-403	Electromagnetic Field Theory	CBCS	4	3	1	-	10	15	15	60	100	
04	ECS-404	Communication Systems	DC	4	3	1	-	10	15	15	60	100	
05	ECS-405	DSCP	SEC	4	3	1	-	10	15	15	60	100	
PRACTICAL (LAB.)													
06	ECS-410	Analog Electronics-II	SEC	2	-	-	4	10	10	10	20	50	
07	ECS-411	Communication Engg.	DC	2	-	-	4	10	10	10	20	50	
Total				24								Total	600

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B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -III YEAR

Fifth Semester												
No	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)				
					L	T	P	Mid Semester Evaluation			End Semester Evaluation	Total Marks
								CCA	MSE-1	MSE-2		
01	ECS-501	Active Filters and Signal Processing	AEC	4	3	1	-	10	15	15	60	100
02	ECS-502	Computer Architecture	CBCS	4	3	1	-	10	15	15	60	100
03	ECS-503	Control Systems	DC	4	3	1	-	10	15	15	60	100
04	ECS-504	Digital Circuits and Systems	DC	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB.)												
06	ECS-510	AFSP Lab	DC	2	-	-	4	10	10	10	20	50
07	ECS-511	Instrumentation Lab	SEC	2	-	-	4	10	10	10	20	50
08	ECS-512	Digital Circuits Lab	DC	2	-	-	4	10	10	10	20	50
Total				22								550
Sixth Semester												
01	ECS-601	Microprocessor	CBCS	4	3	1	-	10	15	15	60	100
02	ECS-602	Digital Signal Processing	DC	4	3	1	-	10	15	15	60	100
03	ECS-603	Antenna and Wave Propagation	DC	4	3	1	-	10	15	15	60	100
04	ECS-604	Data Communication and Computer Networking	DC	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB/SEMINAR)												
06	ECS-610	Microprocessor Lab	DC	2	-	-	4	10	10	10	20	50
07	ECS-611	DSP Lab	SEC	2	-	-	4	10	10	10	20	50
08	ECS-612	Seminar	DC	2	-	-	4	10	10	10	20	50
Total				22								Total 550

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Department of Electronics and Communication Engineering
Jamia Millia Islamia
B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE
UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)
Effective from July 2018

Codes for nature of courses

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B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -IV YEAR

S.No	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)				
					L	T	P	Mid Semester Evaluation			End Semester Evaluation	Total Marks
								CCA	MSE -1	MSE -2		
01	ECS-701	VLSI Design	AEC C	4	3	1	-	10	15	15	60	100
02	ECS-702	Wireless Communication	DC	4	3	1	-	10	15	15	60	100
03	ECS-703	Communication Networks	CBCS	4	3	1	-	10	15	15	60	100
04	ECS-704	Digital Communication	DC	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB./MINOR PROJECT)												
05	ECS-711	VLSI Lab	DC	2	-	-	4	10	10	10	20	50
06	ECS-712	Minor Project	SEC	6	-	-	12	30	30	30	60	150
Total				24								600
Eighth Semester												
01	ECS-801	Embedded Systems	CBCS	4	3	1	-	10	15	15	60	100
02	ECS-802	Microwave Engineering	DC	4	3	1	-	10	15	15	60	100
03	ECS-803	Optical Fiber Communication	DC	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB./MAJOR PROJECT)												
05	ECS-811	Microwave Engineering Lab	SEC	2	-	-	4	10	10	10	20	50
06	ECS-812	Major Project	DC	8	-	-	16	40	40	40	80	200
Total				22								550

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M. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING-I YEAR

First Semester													
No	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)					
					L	T	P	Mid Semester Evaluation			End Semester Evaluation	Total Marks	
								CCA	MSE-1	MSE-2			
01	MEC-101	Random Variables & Stochastic Processes	CBCS	4	3	1	0	10	15	15	60	100	
02	MEC-102	Low Power VLSI Design	DC	4	3	1	0	10	15	15	60	100	
03	MEC-103	Telecommunication Switching & Networks	AEC C	4	3	1	0	10	15	15	60	100	
04	Elective-I	Elective – I	DC	4	3	1	0	10	15	15	60	100	
PRACTICAL (LAB.)													
05	MEC-151	Advanced VLSI Lab	SEC	2	0	0	2	30	0	0	20	50	
06	MEC-152	Advanced Communication Systems Lab	DC	2	0	0	2	30	0	0	20	50	
Total				20								500	
Second Semester													
01	MEC-201	3G/4G Networks & Convergence	DC	4	3	1	0	10	15	15	60	100	
02	MEC-202	Advanced Digital Signal Processing	CBCS	4	3	1	0	10	15	15	60	100	
03	MEC-203	Modern Instrumentation & Sensors	DC	4	3	1	0	10	15	15	60	100	
04	Elective-II	Elective – II	DC	4	3	1	0	10	15	15	60	100	
PRACTICAL (LAB.)													
05	MEC-251	Microwave & Optical Communication Lab	SEC	2	0	0	2	30	0	0	20	50	
06	MEC-252	Digital Signal Processing Lab	DC	2	0	0	2	30	0	0	20	50	
Total				20								Total	500

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M. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -II YEAR

Third Semester												
S.No	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)				
					L	T	P	Mid Semester Evaluation			End Semester Evaluation	Total Marks
								CCA	MSE-1	MS E-2		
01	MEC-301	Advanced Signal Processing	CBCS	4	3	1	0	10	15	15	60	100
02	Elective-III	Elective – III	DC	4	3	1	0	10	15	15	60	100
PRACTICAL (LAB./MINOR PROJECT)												
03	MEC-351	Seminar	SEC	6	-	-	6	90	0	0	60	150
04	MEC-352	Minor Project	DC	10	-	-	10	150	0	0	100	250
Total				24								600
Fourth Semester												
01	MEC-401	Dissertation	DC	16	0	0	16	240	0	0	160	400
Total				16								400

Elective – I

- MEC-104 Modern Digital Communication Systems
MEC-105 Information Theory and Coding
MEC-106 Nanoelectronics & Devices

Elective – II

- MEC-204 Advanced Computer Networks
MEC-205 FPGA Based System Design
MEC-206 Secure Communication

Elective – III

- MEC-302 Digital Image Processing
MEC-303 Advanced Optical Communication
MEC-304 Advanced Embedded Systems