



DEVI AHILYA VISHWAVIDYALAYA, INDORE

School of Electronics

1.1.2

Minutes of the Meetings and Changes in Syllabus



M. Sc. Electronics & Communication Scheme Revision Session: 2013 – 15

Semester I			34 Credits		34 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 11	Signals and Systems	4	ECN 11	Signals and Systems	4
2	ECN 12	Electromagnetic Theory	4	ECN 12	Electromagnetic Theory	4
3	ECN 13	Programming in C Language	4	ECN 13	Programming in C Language	4
4	ECN 14	Analog Interface Electronics	4	ECN 14	Analog Interface Electronics	4
5	ECN 15	Digital Design	4	ECN 15	Digital Design	4
6	ECN 16	(a) Analog Lab (b) Digital Lab	2+2	ECN 16	(a) Analog Lab (b) Digital Lab	2+2
7	ECN 17	Computer Lab (C Programming)	4	ECN 17	Computer Lab (C Programming)	4
8	ECN 18	Seminar	2	ECN 18	Seminar	2
9	ECN 19	Comprehensive Viva	4	ECN 19	Comprehensive Viva	4
Semester II:			34 Credits		34 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 21	Network Theory	4	ECN 21	Network Theory	4
2	ECN 22	Analog & Digital Communication	4	ECN 22	Analog & Digital Communication	4
3	ECN 23	Computer Networks	4	ECN 23	Computer Networks	4
4	ECN 24	Digital Signal Processing	4	ECN 24	Digital Signal Processing	4
5	ECN 25	OOPS(C++)	4	ECN 25	OOPS(using C++)	4
6	ECN 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	ECN 26	(a) MATLAB Laboratory (b) ADC Lab	2+2
7	ECN 27	(a) C++ Lab (b) Network Lab	2+2	ECN 27	(a) C++ Lab (b) Network Lab	2+2
8	ECN 28	Seminar	2	ECN 28	Seminar	2
9	ECN 29	Comprehensive Viva	4	ECN 29	Comprehensive Viva	4
Semester III:			26 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 31	Control Systems	4	ECN 31	Control Systems	4
2	ECN 32	Microwave Engineering	4	ECN 32	Microwave Engineering	4
3	ECN 33	Microprocessors & Interfacing	4	ECN 33	Microprocessors & Interfacing	4
4	ECN 34	Wireless Communication	4	ECN 34	Wireless Communication	4
5	ECN 35	Wireless Comm. Laboratory	3	ECN 35	VHDL	4
6	ECN 36	Microprocessor Lab.	3	ECN 36	Wireless Comm. Laboratory	2
7	ECN 37	Comprehensive Viva	4	ECN 37	VHDL Laboratory	2
8				ECE 38	Microprocessor Lab.	2
9				ECE 39	Comprehensive Viva	4
Semester IV:			26 Credits		26 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 41 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4	ECN 41 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4
2	ECN 42	JAVA	4	ECN 42	JAVA	4
3	ECN 43	(a) VLSI Lab / (b) Microcontroller Lab	3	ECN 43	(a) VLSI Lab / (b) Microcontroller Lab	3
4	ECN 44	Java Lab	3	ECN 44	Java Lab	3
5	ECN 45	Major Project	8	ECN 45	Major Project	4
6	ECN 46	Comprehensive Viva	4	ECN 46	Comprehensive Viva	4

Total Credits: 120

Total Credits: 124

Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.

2. The CBCS scheme has been introduced from 2013 onwards.

Departmental Meeting

A departmental meeting was held on 26/03/2014. Following faculty members were present.

1. Dr. A. Kumar

2. Dr. S. Katiyal

3. Dr. M.K. Chattopadhyay Phys

4. Ms. Kirti Panwar

5. Mr. R.R. Chowdhary

Ah - L

Dr. Katiyal

Phys

K. Panwar

R.R. Chowdhary

Minutes.

1. Admission related data should be provided to committee for advertisement.
2. Dates of project phase - II has to be decided for first week of June-14.
3. Wireless network paper should be shifted to first semester ~~inst~~ from second semester for MTech MCT.
4. New paper must be introduced in MTech MCT named "Real Time OS".
5. Paper Embedded System is replaced by Real Time OS in first semester for MTech ES.
6. DBMS paper is replaced by Lang Programming in MTech ES.

7. Wireless Comm. Course will be introduced in M.Sc Electronics III sem.
8. VHDL Course will be introduced in M.Sc Electronics & Comm. III sem.
9. Credits for both the M.Sc Programmes will be revised accordingly.
10. Credits in Sem I and Sem II for M.Sc will be revised as per the revision for Batch 2014-16.
- 11.

M. Sc. Electronics & Communication Scheme Revision Session: 2014 – 16

Semester I			34 Credits	32 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 11	Signals and Systems	4	ECN 11	Signals and Systems-I (Continuous)	4
2	ECN 12	Electromagnetic Theory	4	ECN 12	Electromagnetic Theory	4
3	ECN 13	Programming in C Language	4	ECN 13	Programming in C Language	4
4	ECN 14	Analog Interface Electronics	4	ECN 14	Analog Interface Electronics	4
5	ECN 15	Digital Design	4	ECN 15	Digital Design	4
6	ECN 16	(a) Analog Lab (b) Digital Lab	2+2	ECN 16	(a) Analog Lab (b) Digital Lab	2+2
7	ECN 17	Computer Lab (C Programming)	4	ECN 17	Computer Lab (C Programming)	2
8	ECN 18	Seminar	2	ECN 18	Seminar	2
9	ECN 19	Comprehensive Viva	4	ECN 19	Comprehensive Viva	4
Semester II:			34 Credits	32 Credits		
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 21	Network Theory	4	ECN 21	Network Theory	4
2	ECN 22	Analog & Digital Communication	4	ECN 22	Analog Communication System	4
3	ECN 23	Computer Networks	4	ECN 23	Computer Networks	4
4	ECN 24	Digital Signal Processing	4	ECN 24	Signals and Systems-II (Discrete)	4
5	ECN 25	OOPS(C++)	4	ECN 25	OOPS(using C++)	4
6	ECN 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	ECN 26	(a) MATLAB Laboratory (b) ADC Lab	2+2
7	ECN 27	(a) C++ Lab (b) Network Lab	2+2	ECN 27	(a) C++ Lab (b) Network Lab	2+2
8	ECN 28	Seminar	2	ECN 28	Comprehensive Viva	4
9	ECN 29	Comprehensive Viva	4			
Semester III:			30 Credits	30 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 31	Control Systems	4	ECN 31	Control Systems	4
2	ECN 32	Microwave Engineering	4	ECN 32	Microwave Communication	4
3	ECN 33	Microprocessors & Interfacing	4	ECN 33	Microprocessors & Interfacing	4
4	ECN 34	Wireless Communication	4	ECN 34	Wireless Communication	4
5	ECN 35	VHDL	4	ECN 35	VHDL	4
6	ECN 36	Wireless Comm. Laboratory	2	ECN 36	Wireless Comm. Laboratory	2
7	ECN 37	VHDL Laboratory	2	ECN 37	Microprocessor Lab.	2
8	ECN 38	Microprocessor Lab.	2	ECN 38	VHDL Laboratory	2
9	ECN 39	Comprehensive Viva	4	ECN 39	Comprehensive Viva	4
Semester IV:			26 Credits	26 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit
1	ECN 41 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4	ECN 41 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4
2	ECN 42	JAVA	4	ECN 42	JAVA	4
3	ECN 43	(a) VLSI Lab / (b) Microcontroller Lab	3	ECN 43	(a) VLSI Lab / (b) Microcontroller Lab	3
4	ECN 44	Java Lab	3	ECN 44	Java Lab	3
5	ECN 45	Major Project	8	ECN 45	Major Project	8
6	ECN 46	Comprehensive Viva	4	ECN 46	Comprehensive Viva	4

Total Credits: 124

Total Credits: 120

Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.

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Departmental Meeting

A departmental meeting was held on 26/03/2014. Following faculty members were present.

1. Dr. A. Kumar

2. Dr. S. Katiyal

3. Dr. M.K. Chattopadhyay

4. Ms. Kirti Panwar

5. Mr. R.R. Chowdhary

Ahmed

Dr. Katiyal

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Minutes.

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- 11.

M. Sc. Electronics & Communication Scheme Revision Session: 2015 – 17

Semester I				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ECN 11	Signals and Systems-I (Continuous)	4	EL51101	Signals and Systems-I (Continuous)	4	
2	ECN 12	Electromagnetic Theory	4	EL51102	Electromagnetic Theory	4	
3	ECN 13	Programming in C Language	4	EL51103	Programming in C	4	
4	ECN 14	Analog Interface Electronics	4	EL51104	Analog Interface Electronics	4	
5	ECN 15	Digital Design	4	EL51105	Digital Design	4	
6	ECN 16	(a) Analog Lab (b) Digital Lab	2+2	EL51203	Computer Lab (C Programming)	2+2	
7	ECN 17	Computer Lab (C Programming)	2	EL51204/05	(a) Analog Lab (b) Digital Lab	2	
8	ECN 18	Seminar	2	EL51301	Seminar	2	
9	ECN 19	Comprehensive Viva	4	EL51401	Comprehensive Viva	4	
Semester II:				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ECN 21	Network Theory	4	EL52101	Network Theory	4	
2	ECN 22	Analog Communication System	4	EL52102	Analog Communication System	4	
3	ECN 23	Computer Networks	4	EL52103	Computer Networks	4	
4	ECN 24	Signals and Systems-II (Discrete)	4	EL52104	Signals and Systems-II (Discrete)	4	
5	ECN 25	OOPS(C++)	4	EL52105	Object Oriented Programming (using C++)	4	
6	ECN 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	EL52202/03	(a) ADC Lab (b) Computer Network Lab	2+2	
7	ECN 27	(a) C++ Lab (b) Network Lab	2+2	EL52204/05	(a) MATLAB Laboratory (b) C++ Lab	2+2	
8	ECN 28	Comprehensive Viva	4	EL52401	Comprehensive Viva	4	
Semester III:				30 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ECN 31	Control Systems	4	EL53101	Control Systems	4	
2	ECN 32	Microwave Communication	4	EL53102	Microwave Communication	4	
3	ECN 33	Microprocessors & Interfacing	4	EL53103	Microprocessors & Interfacing	4	
4	ECN 34	Wireless Communication	4	EL53104	Wireless Communication	4	
5	ECN 35	VHDL	4	EL53105	VHDL	4	
6	ECN 36	Wireless Comm. Laboratory	2	EL53202	Wireless Comm. Laboratory	2	
7	ECN 37	VHDL Laboratory	2	EL53205	VHDL Laboratory	2	
8	ECN 38	Microprocessor Lab.	2	EL53203	Microprocessor Lab.	2	
9	ECN 39	Comprehensive Viva	4	EL53401	Comprehensive Viva	4	
Semester IV:				26 Credits		26 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ECN 41 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4	EL54101/02 Elective-I	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4	
2	ECN 42	JAVA	4	EL54103	JAVA	4	
3	ECN 43	(a) VLSI Lab / (b) Microcontroller Lab	3	EL54201/03	(a) VLSI Lab / (b) Microcontroller Lab	3	
4	ECN 44	Java Lab	3	EL54202	Java Lab	3	
5	ECN 45	Major Project	8	EL54501	Major Project	8	
6	ECN 46	Comprehensive Viva	4	EL54401	Comprehensive Viva	4	

Total Credits: 120

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Departmental Meeting

PAGE NO.

DATE:

10/04/2015

A departmental committee was held on 10/04/15
Following faculty members were present:

1. Dr. Ashay Kumar
2. Dr. M. K. Chattopadhyay
3. Ms. Kirti Panwar
4. Mr. R. R. Chowdhary

Chairman

M. K. Chattopadhyay

K. Panwar

R. R. Chowdhary

Minutes

1. Ordinance 31 is revised by University. Syllabus for all course will be revised as per new Ordinance. Credit will be revised accordingly for all programmes.
2. Elective (generic and subject specific) course should be offered to students.

M. Sc. Electronics & Communication Scheme Revision Session: 2016 – 18

Semester I				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL51101	Signals and Systems-I (Continuous)	4	EL51101	Signals and Systems-I (Continuous)	4	
2	EL51102	Electromagnetic Theory	4	EL51102	Electromagnetic Theory	4	
3	EL51103	Programming in C	4	EL51103	Programming in C	4	
4	EL51104	Analog Interface Electronics	4	EL51104	Devices and Circuit Theory	4	
5	EL51105	Digital Design	4	EL51105	Digital Design	4	
6	EL51203	Computer Lab (C Programming)	2+2	EL51203	C Programming Lab	2+2	
7	EL51204/05	(a) Analog Lab (b) Digital Design Lab	2	EL51204/05	Device and Circuit Lab / Digital Design Lab	2	
8	EL51301	Seminar	2	EL51301	Seminar	2	
9	EL51401	Comprehensive Viva	4	EL51401	Comprehensive Viva	4	
Semester II:				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL52101	Network Theory	4	EL52101	Microprocessor & Interfacing	4	
2	EL52102	Analog Communication System	4	EL52102	Analog & Digital Communication	4	
3	EL52103	Computer Networks	4	EL52103	Computer Networks	4	
4	EL52104	Signals and Systems-II (Discrete)	4	EL52104	Signals and Systems-II (Discrete)	4	
5	EL52105	Object Oriented Programming (using C++)	4	EL52105	Object Oriented Programming (using JAVA)	4	
6	EL52202/03	(a) ADC Lab (b) Computer Network Lab	2+2	EL52201/02	Microprocessor Lab. / Analog & Digital Communication Lab	2+2	
7	EL52204/05	(a) MATLAB Laboratory (b) C++ Lab	2+2	EL52204/05	MATLAB Laboratory / JAVA Lab	2+2	
8	EL52401	Comprehensive Viva	4	EL52401	Comprehensive Viva	4	
Semester III:				30 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL53101	Control Systems	4	EL53101	Control Systems	4	
2	EL53102	Microwave Communication	4	EL53102	Microwave Communication	4	
3	EL53103	Microprocessors & Interfacing	4	EL53103	Microcontroller & Interfacing	4	
4	EL53104	Wireless Communication	4	EL53104	Wireless Communication	4	
5	EL53105	VHDL	4	EL53105	VHDL	4	
6	EL53202	Wireless Comm. Laboratory	2	EL53203	Microcontroller Lab.	2	
7	EL53205	VHDL Laboratory	2	EL53204	Wireless Comm. Laboratory	2	
8	EL53203	Microprocessor Lab.	2	EL53205	VHDL Laboratory	2	
9	EL53401	Comprehensive Viva	4	EL53401	Comprehensive Viva	4	
Semester IV:				26 Credits		12 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL54101/02	(a) CMOS Technology & VLSI Design (b) Microcontroller & Embedded System	4	EL54501	Major Project	12	
2	EL54103	JAVA	4				
3	EL54201/02	(a) VLSI Lab / (b) Microcontroller Lab	3				
4	EL54203	Java Lab	3				
5	EL54501	Major Project	8				
6	EL54401	Comprehensive Viva	4				

Total Credits: 120

Total Credits: 106

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PAGE NO. _____
DATE: _____

Departmental Meeting

25/03/2016

A departmental meeting was held on 25/03/2016
Following faculty members were present.

1. Dr. Abhay Kumar

2. Dr. S. Katiyal

Sharma

3. Dr. M.K. Chattopadhyay

Maji

4. Ms. Kirti Parvati Bhati

Parvati

5. Mr. R.R. Chowdhary

Chowdhary

Minutes.

1. Project phase - II Viva Voce will be held in June-16
2. Obsolete paper "Analog Interface Electronics" course will be replaced by "Devices and Circuit Theory" in M.Sc programmes in Semester I.
3. Scheme for both the M.Sc programmes will be revised to accommodate 1 semester project training in industry. ~~for~~ and credits will be revised accordingly.
4. Free paper in M.Sc programmes will be merged and rearranged accordingly.

M. Sc. Electronics Scheme Revision Session: 2013 – 15

Semester I			34 Credits		34 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 11	Signals and Systems	4	ELE 11	Signals and Systems	4	
2	ELE 12	Electromagnetic Theory	4	ELE 12	Electromagnetic Theory	4	
3	ELE 13	Programming in C Language	4	ELE 13	Programming in C Language	4	
4	ELE 14	Analog Interface Electronics	4	ELE 14	Analog Interface Electronics	4	
5	ELE 15	Digital Design	4	ELE 15	Digital Design	4	
6	ELE 16	(a) Analog Lab (b) Digital Lab	2+2	ELE 16	(a) Analog Lab (b) Digital Lab	2+2	
7	ELE 17	Computer Lab (C Programming)	4	ELE 17	Computer Lab (C Programming)	4	
8	ELE 18	Seminar	2	ELE 18	Seminar	2	
9	ELE 19	Comprehensive Viva	4	ELE 19	Comprehensive Viva	4	
Semester II:			34 Credits		34 Credits		
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 21	Network Theory	4	ELE 21	Network Theory	4	
2	ELE 22	Analog & Digital Communication	4	ELE 22	Analog & Digital Communication	4	
3	ELE 23	Computer Networks	4	ELE 23	Computer Networks	4	
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5	ELE 25	OOPS(C++)	4	ELE 25	OOPS(using C++)	4	
6	ELE 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	ELE 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	
7	ELE 27	(a) C++ Lab (b) Network Lab	2+2	ELE 27	(a) C++ Lab (b) Network Lab	2+2	
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9	ELE 29	Comprehensive Viva	4	ELE 29	Comprehensive Viva	4	
Semester III:			26 Credits		30 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 31	Control Systems	4	ELE 31	Control Systems	4	
2	ELE 32	Microwave Engineering	4	ELE 32	Microwave Engineering	4	
3	ELE 33	Microprocessors & Interfacing	4	ELE 33	Microprocessors & Interfacing	4	
4	ELE 34	VHDL	4	ELE 34	Wireless Communication	4	
5	ELE 35	VHDL Laboratory	3	ELE 35	VHDL	4	
6	ELE 36	Microprocessor Lab.	3	ELE 36	Wireless Comm. Laboratory	2	
7	ELE 37	Comprehensive Viva	4	ELE 37	VHDL Laboratory	2	
8				ELE 38	Microprocessor Lab.	2	
				ELE 39	Comprehensive Viva	4	
Semester IV:			26 Credits		26 Credits		
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE41	CMOS Technology & VLSI Design	4	ELE41	CMOS Technology & VLSI Design	4	
2	ELE 42	Microcontroller & Embedded System	4	ELE 42	Microcontroller & Embedded System	4	
3	ELE 43	VLSI Lab	3	ELE 43	VLSI Lab	3	
4	ELE 44	Microcontroller Lab	3	ELE 44	Microcontroller Lab	3	
5	ELE 45	Major Project	8	ELE 45	Major Project	4	
6	ELE 46	Comprehensive Viva	4	ELE 46	Comprehensive Viva	4	

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4. New paper must be introduced in MTech MCT named "Real Time OS".
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3	ELE 13	Programming in C Language	4	ELE 13	Programming in C Language	4	
4	ELE 14	Analog Interface Electronics	4	ELE 14	Analog Interface Electronics	4	
5	ELE 15	Digital Design	4	ELE 15	Digital Design	4	
6	ELE 16	(a) Analog Lab (b) Digital Lab	2+2	ELE 16	(a) Analog Lab (b) Digital Lab	2+2	
7	ELE 17	Computer Lab (C Programming)	4	ELE 17	Computer Lab (C Programming)	2	
8	ELE 18	Seminar	2	ELE 18	Seminar	2	
9	ELE 19	Comprehensive Viva	4	ELE 19	Comprehensive Viva	4	
Semester II:				34 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 21	Network Theory	4	ELE 21	Network Theory	4	
2	ELE 22	Analog & Digital Communication	4	ELE 22	Analog Communication System	4	
3	ELE 23	Computer Networks	4	ELE 23	Computer Networks	4	
4	ELE 24	Digital Signal Processing	4	ELE 24	Signals and Systems-II (Discrete)	4	
5	ELE 25	OOPS(C++)	4	ELE 25	OOPS(using C++)	4	
6	ELE 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	ELE 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	
7	ELE 27	(a) C++ Lab (b) Network Lab	2+2	ELE 27	(a) C++ Lab (b) Network Lab	2+2	
8	ELE 28	Seminar	2	ELE 28	Comprehensive Viva	4	
9	ELE 29	Comprehensive Viva	4				
Semester III:				30 Credits		30 Credits	
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3	ELE 33	Microprocessors & Interfacing	4	ELE 33	Microprocessors & Interfacing	4	
4	ELE 34	Wireless Communication	4	ELE 34	Wireless Communication	4	
5	ELE 35	VHDL	4	ELE 35	VHDL	4	
6	ELE 36	Wireless Comm. Laboratory	2	ELE 36	Wireless Comm. Laboratory	2	
7	ELE 37	VHDL Laboratory	2	ELE 37	VHDL Laboratory	2	
8	ELE 38	Microprocessor Lab.	2	ELE 38	Microprocessor Lab.	2	
	ELE 39	Comprehensive Viva	4	ELE 39	Comprehensive Viva	4	
Semester IV:				26 Credits		26 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE41	CMOS Technology & VLSI Design	4	ELE41	CMOS Technology & VLSI Design	4	
2	ELE 42	Microcontroller & Embedded System	4	ELE 42	Microcontroller & Embedded System	4	
3	ELE 43	VLSI Lab	3	ELE 43	VLSI Lab	3	
4	ELE 44	Microcontroller Lab	3	ELE 44	Microcontroller Lab	3	
5	ELE 45	Major Project	8	ELE 45	Major Project	8	
6	ELE 46	Comprehensive Viva	4	ELE 46	Comprehensive Viva	4	

Total Credits: 124

Total Credits: 120

Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.

2. The CBCS scheme has been introduced from 2013 onwards.

Departmental Meeting

A departmental meeting was held on 26/03/2014. Following faculty members were present.

1. Dr. A. Kumar

2. Dr. S. Katiyal

3. Dr. M.K. Chattopadhyay Phys

4. Ms. Kirti Panwar

5. Mr. R.R. Chowdhary

Ah - L

Dr. Katiyal

Phys

K Panwar

R.R. Chowdhary

Minutes.

1. Admission related data should be provided to committee for advertisement.
2. Dates of project phase - II has to be decided for first week of June-14.
3. Wireless network paper should be shifted to first semester ~~inst~~ from second semester for MTech MCT.
4. New paper must be introduced in MTech MCT named "Real Time OS".
5. Paper Embedded System is replaced by Real Time OS in first semester for MTech ES.
6. DBMS paper is replaced by Lang Programming in MTech ES.

7. Wireless Comm. Course will be introduced in M.Sc Electronics III sem.
8. VHDL Course will be introduced in M.Sc Electronics & Comm. III sem.
9. Credits for both the M.Sc Programmes will be revised accordingly.
10. Credits in Sem I and Sem II for M.Sc will be revised as per the revision for Batch 2014-16.
- 11.

M. Sc. Electronics Scheme Revision Session: 2015 – 17

Semester I				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 11	Signals and Systems-I (Continuous)	4	EL51101	Signals and Systems-I (Continuous)	4	
2	ELE 12	Electromagnetic Theory	4	EL51102	Electromagnetic Theory	4	
3	ELE 13	Programming in C Language	4	EL51103	Programming in C	4	
4	ELE 14	Analog Interface Electronics	4	EL51104	Analog Interface Electronics	4	
5	ELE 15	Digital Design	4	EL51105	Digital Design	4	
6	ELE 16	(a) Analog Lab (b) Digital Lab	2+2	EL51203	Computer Lab (C Programming)	2	
7	ELE 17	Computer Lab (C Programming)	2	EL51204/05	(a) Analog Lab (b) Digital Lab	2+2	
8	ELE 18	Seminar	2	EL51301	Seminar	2	
9	ELE 19	Comprehensive Viva	4	EL51401	Comprehensive Viva	4	
Semester II:				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 21	Network Theory	4	EL52101	Network Theory	4	
2	ELE 22	Analog Communication System	4	EL52102	Analog Communication System	4	
3	ELE 23	Computer Networks	4	EL52103	Computer Networks	4	
4	ELE 24	Signals and Systems-II (Discrete)	4	EL52104	Signals and Systems-II (Discrete)	4	
5	ELE 25	OOPS(C++)	4	EL52105	Object Oriented Programming (using C++)	4	
6	ELE 26	(a) MATLAB Laboratory (b) ADC Lab	2+2	EL52202/03	(a) ADC Lab (b) Computer Network Lab	2+2	
7	ELE 27	(a) C++ Lab (b) Network Lab	2+2	EL52204/05	(a) MATLAB Laboratory (b) C++ Lab	2+2	
8	ELE 28	Comprehensive Viva	4	EL52401	Comprehensive Viva	4	
Semester III:				30 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE 31	Control Systems	4	EL53101	Control Systems	4	
2	ELE 32	Microwave Communication	4	EL53102	Microwave Communication	4	
3	ELE 33	Microprocessors & Interfacing	4	EL53103	Microprocessors & Interfacing	4	
4	ELE 34	Wireless Communication	4	EL53104	Wireless Communication	4	
5	ELE 35	VHDL	4	EL53105	VHDL	4	
6	ELE 36	Wireless Comm. Laboratory	2	EL53202	Wireless Comm. Laboratory	2	
7	ELE 37	VHDL Laboratory	2	EL53205	VHDL Laboratory	2	
8	ELE 38	Microprocessor Lab.	2	EL53203	Microprocessor Lab.	2	
	ELE 39	Comprehensive Viva	4	EL53401	Comprehensive Viva	4	
Semester IV:				26 Credits		26 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	ELE41	CMOS Technology & VLSI Design	4	EL54101	CMOS Technology & VLSI Design	4	
2	ELE 42	Microcontroller & Embedded System	4	EL54102	Microcontroller & Embedded System	4	
3	ELE 43	VLSI Lab	3	EL54201	VLSI Lab	3	
4	ELE 44	Microcontroller Lab	3	EL54202	Microcontroller Lab	3	
5	ELE 45	Major Project	8	EL54501	Major Project	8	
6	ELE 46	Comprehensive Viva	4	EL54401	Comprehensive Viva	4	

Total Credits: 120

Total Credits: 120

- Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.
2. The CBCS scheme has been introduced from 2013 onwards.

Departmental Meeting

PAGE NO.

DATE:

10/04/2015

A departmental committee was held on 10/04/15
Following faculty members were present:

1. Dr. Ashay Kumar
2. Dr. M. K. Chattopadhyay
3. Ms. Kirti Panwar
4. Mr. R. R. Chowdhary

Chairman

M. K. Chattopadhyay

K. Panwar

R. R. Chowdhary

Minutes

1. Ordinance 31 is revised by University. Syllabus for all course will be revised as per new Ordinance. Credit will be revised accordingly for all programmes.
2. Elective (generic and subject specific) course should be offered to students.

M. Sc. Electronics Scheme Revision Session: 2016 – 18

Semester I				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL51101	Signals and Systems-I (Continuous)	4	EL51101	Signals and Systems-I (Continuous)	4	
2	EL51102	Electromagnetic Theory	4	EL51102	Electromagnetic Theory	4	
3	EL51103	Programming in C	4	EL51103	Programming in C	4	
4	EL51104	Analog Interface Electronics	4	EL51104	Devices and Circuit Theory	4	
5	EL51105	Digital Design	4	EL51105	Digital Design	4	
6	EL51203	Computer Lab (C Programming)	2	EL51203	C Programming Lab	2	
7	EL51204/05	(a) Analog Lab (b) Digital Lab	2+2	EL51204/05	Device and Circuit Lab / Digital Design Lab	2+2	
8	EL51301	Seminar	2	EL51301	Seminar	2	
9	EL51401	Comprehensive Viva	4	EL51401	Comprehensive Viva	4	
Semester II:				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL52101	Network Theory	4	EL52101	Microprocessor & Interfacing	4	
2	EL52102	Analog Communication System	4	EL52102	Analog & Digital Communication	4	
3	EL52103	Computer Networks	4	EL52103	Computer Networks	4	
4	EL52104	Signals and Systems-II (Discrete)	4	EL52104	Signals and Systems-II (Discrete)	4	
5	EL52105	Object Oriented Programming (using C++)	4	EL52105	Object Oriented Programming (using JAVA)	4	
6	EL52202/03	(a) ADC Lab (b) Computer Network Lab	2+2	EL52201/02	Microprocessor & Inft. Lab. / Analog & Digital Communication Lab	2+2	
7	EL52204/05	(a) MATLAB Laboratory (b) C++ Lab	2+2	EL52204/05	MATLAB Laboratory / JAVA Lab	2+2	
8	EL52401	Comprehensive Viva	4	EL52401	Comprehensive Viva	4	
Semester III:				30 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL53101	Control Systems	4	EL53101	Control Systems	4	
2	EL53102	Microwave Communication	4	EL53102	Microwave Communication	4	
3	EL53103	Microprocessors & Interfacing	4	EL53103	Microcontroller & Interfacing	4	
4	EL53104	Wireless Communication	4	EL53106	CMOS Technology & VLSI Design	4	
5	EL53105	VHDL	4	EL53105	VHDL	4	
6	EL53202	Wireless Comm. Laboratory	2	EL53203	Microcontroller Lab.	2	
7	EL53205	VHDL Laboratory	2	EL53206	CMOS Technology & VLSI Design Laboratory	2	
8	EL53203	Microprocessor Lab.	2	EL53205	VHDL Laboratory	2	
	EL53401	Comprehensive Viva	4	EL53401	Comprehensive Viva	4	
Semester IV:				26 Credits		12Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL54101	CMOS Technology & VLSI Design	4	EL54501	Major Project	12	
2	EL54102	Microcontroller & Embedded System	4				
3	EL54201	VLSI Lab	3				
4	EL54202	Microcontroller Lab	3				
5	EL54501	Major Project	8				
6	EL54401	Comprehensive Viva	4				
Total Credits: 120				Total Credits: 106			

- Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.
2. The CBCS scheme has been introduced from 2013 onwards.

PAGE NO. _____
DATE: _____ 25/03/2016

Departmental Meeting

A departmental meeting was held on 25/03/2016
Following faculty members were present.

1. Dr. Abhay Kumar

2. Dr. S. Katiyal

Dr. Katiyal

3. Dr. M.K. Chattopadhyay

Dr. Chattopadhyay

4. Ms. Kirti Parvati Bhatnagar

Ms. Bhatnagar

5. Mr. R.R. Chowdhary

Mr. Chowdhary

Minutes.

1. Project phase - II Viva Voce will be held in June-16
2. Obsolete paper "Analog Interface Electronics" course will be replaced by "Devices and Circuit Theory" in M.Sc programmes in Semester I.
3. Scheme for both the M.Sc programmes will be revised to accommodate 1 semester project training in industry. ~~for~~ and credits will be revised accordingly.
4. Free paper in M.Sc programmes will be merged and rearranged accordingly.

M. Sc. Electronics Scheme Revision Session: 2017 – 19

Semester I				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL51101	Signals and Systems-I (Continuous)	4	EL51101	Signals and Systems-I (Continuous)	4	
2	EL51102	Electromagnetic Theory	4	EL51102	Electromagnetic Theory	4	
3	EL51103	Programming in C	4	EL51103	Programming in C	4	
4	EL51104	Devices and Circuit Theory	4	EL51104	Devices and Circuit Theory	4	
5	EL51105	Digital Design	4	EL51105	Digital Design	4	
6	EL51203	C Programming Lab	2	EL51203	C Programming Lab	2	
7	EL51204/05	Device and Circuit Lab / Digital Design Lab	2+2	EL51204/05	Device and Circuit Lab / Digital Design Lab	2+2	
8	EL51301	Seminar	2	EL51301	Seminar	2	
9	EL51401	Comprehensive Viva	4	EL51401	Comprehensive Viva	4	
Semester II:				32 Credits		32 Credits	
S.N	Course Code	Course Name (Pre-revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL52101	Microprocessor & Interfacing	4	EL52101	Microprocessor & Interfacing	4	
2	EL52102	Analog & Digital Communication	4	EL52102	Analog & Digital Communication	4	
3	EL52103	Computer Networks	4	EL52103	Computer Networks	4	
4	EL52104	Signals and Systems-II (Discrete)	4	EL52104	Signals and Systems-II (Discrete)	4	
5	EL52105	Object Oriented Programming (using JAVA)	4	EL52105	Object Oriented Programming (using JAVA)	4	
6	EL52201/02	Microprocessor Lab. / Analog & Digital Communication Lab	2+2	EL52201/02	Microprocessor Lab. / Analog & Digital Communication Lab	2+2	
7	EL52204/05	MATLAB Laboratory / JAVA Lab	2+2	EL52204/05	MATLAB Laboratory / JAVA Lab	2+2	
8	EL52401	Comprehensive Viva	4	EL52401	Comprehensive Viva	4	
Semester III:				30 Credits		30 Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL53101	Control Systems	4	EL53101	Control Systems	4	
2	EL53102	Microwave Communication	4	EL53102	Microwave Communication	4	
3	EL53103	Microcontroller & Interfacing	4	EL53103	Microcontroller & Interfacing	4	
4	EL53106	CMOS Technology & VLSI Design	4	EL53104	Wireless Communication	4	
5	EL53105	VHDL	4	EL53105	VHDL	4	
6	EL53203	Microcontroller Lab.	2	EL53203	Microcontroller Lab.	2	
7	EL53206	CMOS Technology & VLSI Design Laboratory	2	EL53204	Wireless Communication Laboratory	2	
8	EL53205	VHDL Laboratory	2	EL53205	VHDL Laboratory	2	
	EL53401	Comprehensive Viva	4	EL53401	Comprehensive Viva	4	
Semester IV:				12 Credits		12Credits	
S.N	Course Code	Course Name (Pre-Revised)	Credit	Course Code	Course Name (Revised)	Credit	
1	EL54501	Major Project	12	EL54501	Major Project	12	

Total Credits: 106

Total Credits: 106

Notes: 1. Courses marked with **RED** Ink are deleted courses and courses marked with **GREEN** ink are newly introduced ones. **BLUE** marked courses have minor changes in name and/or syllabus.

2. The CBCS scheme has been introduced from 2013 onwards.

Departmental Meeting

17/04/17

A departmental meeting was held on 17/04/17. Following faculty members were present

1. Dr. Abhay Kumar Abh-L
2. Dr. S. Katiyal S.Katiyal
3. Dr. M. K. Chattopadhyay M.K.
4. Ms. Kirati Panwar K.Panwar
5. Mr. R. R. Chowdhary R.R.

Minutes:-

1. Project Phase-II Viva Voce will be held in June 17.
2. Plagiarisation detection software ~~called~~ "Urkund" adopted by University will be used for checking the above project thesis for plagiarism.
3. Embedded Microcontroller courses introduced as core subject for m.Tech MT
4. A new course Wireless Computer Network & IoT is introduced in

M.Tech (MCT & ES) for exposing students to current trends and technologies.

5. Wireless course will be removed from M.Tech (ES) first semester.

6. "FPGA introduction" should chapter is added to Advance Logic Design course for M.Tech (ES) first semester.

7. In M.Sc Electronics program "CMOS VLSI Design" course will be replaced by "Wireless Comm".