

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

**Three Year(One year course work + Two year research work) Course: Ph. D. (ECE)**

**Semester: I**

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
		Course Work:								
1	MSL- 901-A	Research Methodology	4	0	0	4	3	10	30	60
		Total	4	0	0	4				

**Three Year(One year course work + Two year research work) Course: Ph. D. (ECE)**

**Semester: II**

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
		Course Work:								
1	ECL- 9XX-A	Technical Paper (Related to Research Topic)	4	0	0	4	3	10	30	60
		Total	4	0	0	4				

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

**Three year Part Time Course:M.Tech(ECE)**

**Semester :I**

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL-509-A	Advanced Engineering Mathematics	4	0	0	4	3	10	30	60
2	ECL -501-A	Advanced Microprocessor & Microcontroller	4	0	0	4	3	10	30	60
3	ECL -505-A	Digital Communication Techniques	4	0	0	4	3	10	30	60
4	ECP -501-A	Advanced Microprocessor & Microcontroller Lab	0	0	2	1	3	20	20	60
		Total	12	0	2	13				

**Three year Part Time Course:M.Tech(ECE)**

**Semester :II**

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL -502-A	Electronic System Design	4	0	0	4	3	10	30	60
2	ECL -506-A	Telecommunication Switching Systems	4	0	0	4	3	10	30	60
3	ECL -508-A	Wireless and Mobile Communication	4	0	0	4	3	10	30	60
4	ECP -502-A	Electronic System Design Lab	0	0	2	1	3	20	20	60
		Total	12	0	2	13				

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

Three year Part Time Course:M.Tech(ECE)

Semester :III

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-503-A	Advanced Digital Signal Processing	4	0	0	4	3	10	30	60
2	ECL-519-A	CDMA Technology	4	0	0	4	3	10	30	60
3	*6	Elective-I	3	0	0	3	3	10	30	60
4	ECP-503-A	Advanced Digital Signal Processing Lab	0	0	2	1	3	20	20	60
		Total	11	0	2	12				

\*6  
**Elective-I**  
 ECL- 507-A  
 ECL- 509-A  
 ECL- 511-A  
 ECL- 513-A  
 ECL- 515-A

Three year Part Time Course:M.Tech(ECE)

Semester :IV

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-504-A	Advanced Optical Communication	4	0	0	4	3	10	30	60
2	*7	Elective-II	3	0	0	3	3	10	30	60
3	ECC- 521-A	Seminar (Common with III sem regular M. Tech.)	0	0	2	1	3	****	100	****
4	ECD -523-A	Major Project (Common with III sem regular M. Tech.)	0	0	2	1	3	20	20	60
5	ECP-504-A	Advanced Optical Communication Lab	0	0	2	1	3	20	20	60
		Total	7	0	6	10				

\*7  
**Elective-II**  
 ECL -512-A  
 ECL -514-A  
 ECL- 516-A  
 ECL- 518-A

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

Three year Part Time Course:M.Tech(ECE)

Semester :V

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-517-A	Artificial Neural Networks & Fuzzy Logic	4	0	0	4	3	10	30	60
2	*8	Elective-III	3	0	0	3	3	10	30	60
3	ECD -525-A	Dissertation Phase-I	0	0	4	2	3	*****	100	*****
4	ECP-517-A	Artificial Neural Networks & Fuzzy Logic Lab	0	0	2	1	3	20	20	60
		Total	7	0	6	10				

\*8  
**Elective-III**  
 ECL- 527-A  
 ECL -529-A  
 ECL -531-A  
 ECL -533-A

Three year Part Time Course:M.Tech(ECE)

Semester :VI

S. No	Paper Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECD -522-A	Dissertation	0	0	20	10		20	20	60
		Total	0	0	20	10				

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

6 year regular degree course: Integrated B Tech(ECE)

Semester:I

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL- 003-A	Mathematics -I	3	1	0	4	3	10	30	60
2	AHL -001-A	Physics-I	3	1	0	4	3	10	30	60
3	AHL- 005-A	Effective communicatiuon in English -I	3	1	0	4	3	10	30	60
4	CSL -001-A	Fundamental of Computers	3	1	0	4	3	10	30	60
5	HL- 010-A/EEL- 010	Chemistry/ Basics of Electrical & Electronics Engineering	3	1	0	4	3	10	30	60
6	EP -010-A/MEP -02	Engineering Drawing/ Workshop Technology	1	0	3	2	3	20	20	60
7	AHP -007-A	Language Communication - I	1	0	2	NC	NC	20	20	60
8	AHP- 001-A	Physics Lab -I	0	0	2	1	3	20	20	60
9	CSP-001-A	Fundamental of Computers Lab	0	0	2	1	3	20	20	60
10	HP- 010-A/EEP- 010	Chemistry Lab/ Basics of Electrical & Electronics Engineering La	0	0	2	1	3	20	20	60
		Total	17	5	5	25				

6 year regular degree course: Integrated B Tech(ECE)

Semester:II

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL- 004-A	Mathematics -II	3	1	0	4	3	10	30	60
2	AHL- 002-A	Physics-II	3	1	0	4	3	10	30	60
3	AHL- 006-A	Effective communicatiuon in English -II	3	1	0	4	3	10	30	60
4	CSL- 002-A	Introduction to C	3	1	0	4	3	10	30	60
5	L- 010-A/AHL- 010	Basics of Electrical & Electronics Engineering/Chemistry	3	1	0	4	3	10	30	60
6	EP- 020-A/MEP- 01	Workshop Technology/Engineering Drawing	1	0	3	2	3	20	20	60
7	AHP -008-A	Language Communication - II	1	0	2	NC	NC	20	20	60
8	AHP -002-A	Physics-II Lab	0	0	2	1	3	20	20	60
9	CSP- 002-A	Introduction to C Lab	0	0	2	1	3	20	20	60
10	P-010-A/AHP- 010	Basics of Electrical & Electronics Engineering Lab/Chemistry La	0	0	2	1	1	20	20	60
		Total	17	5	5	25				

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

6 year regular degree course: Integrated B Tech(ECE)

Semester:III

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL- 033-A	Mathematics -III	3	1	0	4	3	10	30	60
2	ECL-031-A	Electronic Devices and Circuits	3	1	0	4	3	10	30	60
3	ECL-033-A	Digital Electronics	3	1	0	4	3	10	30	60
4	EEL-035-A	Network Theory	3	1	0	4	3	10	30	60
5	EEL-037-A	Electrical & Electronics Engineering Materials	3	1	0	4	3	10	30	60
6	AHP- 031-A	Language Communication - III	1	0	2	NC	NC	20	20	60
7	ECP-031-A	Electronic Devices and Circuits Lab	0	0	2	1	3	20	20	60
8	ECP-033-A	Digital Electronics Lab	0	0	2	1	3	20	20	60
9	EEP-035-A	Network Theory Lab	0	0	2	1	3	20	20	60
10	EEP-039	Electrical Workshop	0	0	2	1	3	20	20	60
		Total	17	5	10	24				

6 year regular degree course: Integrated B Tech(ECE)

Semester:IV

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-032-A	Electronic Measurement & Instrumentation	3	1	0	4	3	10	30	60
2	ECL-034-A	Analog Integrated Circuits	3	1	0	4	3	10	30	60
3	ECL-036-A	Audio Video System	3	1	0	4	3	10	30	60
4	ECL-038-A	Signals and Systems	3	1	0	4	3	10	30	60
5	CSL-036-A	Computer Architecture & Organization	3	1	0	4	3	10	30	60
6	ECP-042-A	Electronic Workshop	0	0	2	1	3	20	20	60
7	AHP- 032-A	Language Communication - IV	1	0	2	NC	NC	20	20	60
8	AHL- 034-A	Basics Of EVS	2	0	0	2	3	10	30	60
9	ECP-032-A	Electronic Measurement & Instrumentation Lab	0	0	2	1	3	20	20	60
10	ECP-034-A	Analog Integrated Circuits Lab	0	0	2	1	3	20	20	60
11	ECP-036-A	Audio Video System Lab	0	0	2	1	3	20	20	60
		Total	18	5	10	26				

**MVN University, Palwal(Haryana)**  
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6 year regular degree course: Integrated B Tech(ECE)

Semester:V

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-061-A	Micro-Electronics	3	1	0	4	3	10	30	60
2	ECL-063-A	TV Engineering	3	1	0	4	3	10	30	60
3	ECL-065-A	Analog Communication	3	1	0	4	3	10	30	60
4	ECL-067-A	Digital Signal Processing	3	1	0	4	3	10	30	60
5	MSL-061-A	Industrial Organization & Management	3	1	0	4	3	10	30	60
6	ECP-069-A	PCB LAB	0	0	3	1.5	3	20	20	60
7	ECD-071-A	Minor Project	0	0	3	1.5	3	20	20	60
8	AHP- 061-A	Language Communication - V	1	0	2	NC	NC	20	20	60
9	ECP-065-A	Analog Communication Lab	0	0	2	1	3	20	20	60
10	ECP-067-A	Digital Signal Processing Lab	0	0	2	1	3	20	20	60
		Total	16	5	12	25				

6 year regular degree course: Integrated B Tech(ECE)

Semester:VI

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-062-A	Industrial Electronics	3	1	0	4	3	10	30	60
2	ECL-070-A	Microprocessor	3	1	0	4	3	10	30	60
3	ECL-066-A	Digital Communication	3	1	0	4	3	10	30	60
4	*1	Departmental Elective	3	0	0	3	3	10	30	60
5	ECP-068-A	Repairing & Maintenance of Mobile & TV Set	0	0	2	1	3	20	20	60
6	ECD-072-A	Project	0	0	6	3	3	20	20	60
7	AHP- 062-A	Language Communication - VI	1	0	2	NC	NC	20	20	60
8	ECP-062-A	Industrial Electronics Lab	0	0	2	1	3	20	20	60
9	ECP-070-A	Microprocessor Lab	0	0	2	1	3	20	20	60
10	ECP-066-A	Digital Communication Lab	0	0	2	1	3	20	20	60
		Total	13	3	16	22				

\*1 Departmental Elective  
ECL-074-A  
ECL-076-A  
ECL-078-A  
ECL-082-A  
ECL-084-A  
ECL-086-A  
ECL-088-A

\* Note: After Passing Diploma, students will be directly admitted in second year Of B.Tech. regular course

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

Four year Regular Course: B. Tech. (ECE)

Semester :I

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL- 103-A	Applied Mathematics - I	3	1	0	4	3	10	30	60
2	AHL- 101-A	Applied Physics-I	3	1	0	4	3	10	30	60
3	AHL -105-A	Communication Skills in English - I	3	0	0	3	3	10	30	60
4	CSL -101-A	Introduction to Computer Programming	3	1	0	4	3	10	30	60
5	EEL -100-A/ECL- 100-A	Electrical Technology/Basic Electronics	3	1	0	4	3	10	30	60
6	MEL- 101-A	Elements of Mechanical Engineering	3	1	0	4	3	10	30	60
7	AHP -115-A	Professional Communication-I	1	0	2	NC	NC	20	20	60
8	AHP -101-A	Applied Physics Lab-I	0	0	2	1	3	20	20	60
9	CSP -101-A	Introduction to Computer Programming Lab	0	0	2	1	3	20	20	60
10	EEP -100-A/ECP- 100-A	Electrical Technology/Basic Electronics Lab	0	0	2	1	3	20	20	60
11	MEP -101-A	Elements of Mechanical Engineering Lab	0	0	2	1	3	20	20	60
		Total	19	5	10	27	30			

Four year Regular Course: B. Tech. (ECE)

Semester :II

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL -104-A	Applied Mathematics - II	3	1	0	4	3	10	30	60
2	AHL- 102-A	Applied Physics-II	3	1	0	4	3	10	30	60
3	AHL- 106-A	Communication Skills in English - II	3	0	0	3	3	10	30	60
4	CSL- 102-A	Advance C Programming	3	1	0	4	3	10	30	60
5	MEP- 102-A	Engineering Drawing	1	0	3	3	3	10	30	60
6	ECL- 100-A/EEL- 100-A	Basic Electronics/Electrical Technology	3	1	0	4	3	10	30	60
7	AHP -116-A	Professional Communication-II	1	0	2	NC	NC	20	20	60
8	AHL -110-A	Environmental Studies	2	0	0	2	3	10	30	60
9	AHP -102-A	Applied Physics Lab-II	0	0	2	1	3	20	20	60
10	CSP -102-A	Advance C Programming	0	0	2	1	3	20	20	60
11	ECP -100-A/EEP- 100-A	Basic Electronics/Electrical Technology Lab	0	0	2	1	3	20	20	60
		Total	19	4	5	27				



## ANNEXURE – I

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

Four year Regular Course: B. Tech. (ECE)

Semester :III

S. No	paper code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	EEL- 201-A	Network Analysis and Synthesis	3	1	0	4	3	10	30	60
2	ECL- 201-A	Electronic Devices and Circuits	3	1	0	4	3	10	30	60
3	ECL- 203-A	Digital Electronics	3	1	0	4	3	10	30	60
4	CSL- 205-A	Data Structure & Applications	3	1	0	4	3	10	30	60
5	AHL- 207-A	Applied Mathematics -III	3	1	0	4	3	10	30	60
6	MSL- 503-A	Managerial Economics	3	0	0	3	3	10	30	60
7	AHP- 200-A/ECV-200-A	Professional Communication - III/VAC-I	1	0	2	NC	NC	20	20	60
8	EEP -201-A	Network Analysis and Synthesis Lab	0	0	2	1	3	20	20	60
9	ECP -203-A	Digital Electronics Lab	0	0	2	1	3	20	20	60
10	CSP -205-A	Data Structure & Applications Lab	0	0	2	1	3	20	20	60
		Total	19	5	8	26				

Four year Regular Course: B. Tech. (ECE)

Semester :IV

S. No	Course Code	Course Title	Contact Hours per Week			Total	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1		Analog Electronics	3	1	0	4	3	10	30	60
2	EEL- 201-A	Electro-mechanical Energy Conversion	3	1	0	4	3	10	30	60
3	ECL- 201-A	Electro Magnetic Field Theory	3	1	0	4	3	10	30	60
4	ECL- 203-A	Signals and Systems	3	0	0	3	3	10	30	60
5	CSL- 205-A	Numerical Methods	3	1	0	4	3	10	30	60
6	AHL- 207-A	Principles of Management	3	0	0	3	3	10	30	60
7	MSL- 503-A	Electronic Circuits & Simulation Lab	0	0	2	1	3	20	20	60
8	AHP- 200-A/ECV-200-A	VAC-I/Professional Communication - III	1	0	2	NC	NC	20	20	60
9	EEP -201-A	Analog Electronics Lab	0	0	2	1	3	20	20	60
10	ECP -203-A	Electro-mechanical Energy Conversion Lab	0	0	2	1	3	20	20	60
11	CSP -205-A	Numerical Methods Lab	0	0	2	1	3	20	20	60
		Total	19	4	10	26				

**MVN University, Palwal(Haryana)**  
**Scheme of Studies & Syllabus 2014-15**

Two year Regular Course: M.Tech. (ECE)

Semester :I

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	AHL- 509-A	Advanced Engineering Mathematics	4	0	0	4	3	10	30	60
2	ECL- 501-A	Advanced Microprocessor & Microcontroller	4	0	0	4	3	10	30	60
3	ECL- 503-A	Advanced Digital Signal Processing	4	0	0	4	3	10	30	60
4	ECL- 505-A	Digital Communication Techniques	4	0	0	4	3	10	30	60
5	* 6	Elective-I	3	0	0	3	3	10	30	60
6	ECP- 501-A	Advanced Microprocessor & Microcontroller Lab	0	0	2	1	2	20	20	60
7	ECP- 503-A	Advanced Digital Signal Processing Lab	0	0	2	1	2	20	20	60
		Total	19	0	4	21				

\*6

**Elective-I**

ECL -507-A : Data Communication Networks

ECL -509-A : Agri Electronics

ECL -511-A : Space Communication

ECL- 513-A : Secure Communication

ECL- 515-A : Communication &amp; Information Theory

Two year Regular Course: M.Tech. (ECE)

Semester :II

S. No	Course Code	Course Title	Contact Hours per Week			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL- 502-A	Electronic System Design	4	0	0	4	3	10	30	60
2	ECL- 504-A	Advanced Optical Communication	4	0	0	4	3	10	30	60
3	ECL- 506-A	Telecommunication Switching Systems	4	0	0	4	3	10	30	60
4	ECL- 508-A	Wireless and Mobile Communication	4	0	0	4	3	10	30	60
5	*7	Elective-II	3	0	0	3	3	10	30	60
6	ECP- 502-A	Electronic System Design Lab	0	0	2	1	3	20	20	60
7	ECP- 504-A	Advanced Optical Communication Lab	0	0	2	1	3	20	20	60
		Total	19	0	4	21				

\*7

**Elective-II**

ECL -512-A : VLSI - I

ECL -514-A : Nano Technology- I

ECL -516-A : Microwave Engineering - I

ECL -518-A : Embedded System Design - I

**MVN University, Palwal(Haryana)**  
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Two year Regular Course: M.Tech. (ECE)

Semester :III

S. No	Paper Code	Course Title	Teaching Schedule			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECL-517-A	Artificial Neural Networks & Fuzzy Logic	4	0	0	4	3	10	30	60
2	ECL-519-A	CDMA Technology	4	0	0	4	3	10	30	60
3	*8	Elective-III	3	0	0	3	3	10	30	60
4	ECC-521-A	Seminar	0	0	2	1	3	*****	100	*****
5	ECD-523-A	Major Project	0	0	2	1	3	20	20	60
6	ECD-525-A	Dissertation Phase-I	0	0	4	2	3	****	100	*****
7	ECL-517-A	Artificial Neural Networks & Fuzzy Logic Lab	0	0	2	1	3	20	20	60
		Total	11	0	10	16				

**\*8 Elective-III**  
 VLSI-II ECL- 527-A  
 Nano Techno ECL -529-A  
 Microwave ECL -531-A  
 ECL -533-A

Two year Regular Course: M.Tech. (ECE)

Semester :IV

S. No	Paper Code	Course Title	Teaching Schedule			Credit	ETE Duration (Hrs.)	Weightage (%)		
			L	T	P			CW	MTE	ETE
1	ECD-522-A	Dissertation	0	0	20	10		20	20	60
		Total	0	0	20	10				