

2016-2017

Sl.No	Regulations	No.of Course	Year of Study
1	R 16	36	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester
			IV YEAR I & II Semester

Academic Year: 2016-17

I YEAR I SEMESTER

Regulation: R - 16

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	MA102BS	Mathematics-II	4	1	0	4
3	PH103BS	Engineering Physics	3	0	0	3
4	CS104ES	Computer Programming in C	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	ME106ES	Engineering Graphics	2	0	4	4
7	PH107BS	Engineering Physics Lab	0	0	3	2
8	CS108ES	Computer Programming in C Lab	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	18	2	10	24

I YEAR II SEMESTER

Regulation: R - 16

S. No	Course Code	Course Title	L	T	P	Credits
1	AP201BS	Applied Physics	3	0	0	3
2	CH202BS	Engineering Chemistry	4	0	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	EN204HS	Professional Communication in English	3	0	0	3
5	EE205ES	Basic Electrical and Electronics Engineering	4	0	0	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	EN207HS	English Language Communication Skills Lab	0	0	3	2
8	ME208ES	Engineering Workshop	0	0	3	2

9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	18	1	9	24

***Mandatory Course- Satisfactory/Unsatisfactory**

II YEAR I SEMESTER

Regulation: R - 15

Code	Subject	L	T/P/ D	C
A30006	Mathematics – II	4	-	4
A30203	Electrical & Electronics Engineering	4	-	4
A30107	Strength of Materials –I	4	-	4
A30108	Surveying	4	-	4
A30101	Fluid Mechanics	4	-	4
A30010	Managerial Economics and Financial Analysis	4	-	4
A30185	Surveying Lab- I	-	3	2
A30183	Strength of Materials Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Regulation: R - 15

Code	Subject	L	T/P/ D	C
A40008	Probability & Statistics	4	-	4
A40114	Strength of Materials - II	4	-	4
A40111	Hydraulics & Hydraulic Machinery	4	-	4
A40009	Environmental Studies	4	-	4
A40115	Structural Analysis –I	4	-	4
A40109	Building Materials, Construction & Planning	4	-	4
A40186	Computer Aided Drafting of Buildings	-	3	2
A40190	Surveying Lab- II	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Regulation: R - 13

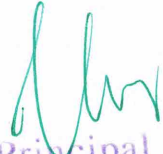
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Code	Subject	L	T/P/D	C
A50116	Concrete Technology	4	-	4
A50121	Reinforced Concrete Structures Design and Drawing	4	-	4
A50118	Engineering Geology	4	-	4
A50120	Geotechnical Engineering	4	-	4
A50122	Water Resources Engineering-I	4	-	4
	Open Elective			
A50117	Disaster Management	4	-	4
A50017	Intellectual Property Rights			
A50018	Human Values and Professional Ethics			
A50181	Fluid Mechanics & Hydraulic Machinery Lab	-	3	2
A50191	Engineering Geology Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Regulation: R - 13

Code	Subject	L	T/P/D	C
A60130	Steel Structures Design and Drawing	3	2	4
A60119	Environmental Engineering	4		4
A60132	Transportation Engineering -I	4		4
A60126	Foundation Engineering	4		4
A60131	Structural Analysis -II	4		4
	Elective -I	4	-	4
A60123	Elements of Earthquake			
A60127	Engineering Ground			
A60128	Improvement Techniques			
A60124	Ground Water Hydrology			
A60129	Environmental Impact			
	Assessment Principles of Entrepreneurship			
A60194	Geotechnical Engineering Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	23	8	28


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IV YEAR I SEMESTER

Regulation: R - 13

Code	Subject	L	T/P/ D	C
A70140	Remote Sensing & GIS	4	-	4
A70143	Transportation Engineering -II	4	-	4
A70138	Estimating & Costing	4	-	4
A70133	Water Resources Engineering-II	4	-	4
A70330 A70134 A70145 A70136	Elective-II	4	-	4
	Finite Element Methods			
	Advanced Foundation			
	Engineering Watershed			
	Management			
	Air Pollution and Control			
A70135 A70137 A70144 A70139	Elective-III	4	-	4
	Advanced Structural Design			
	Earth and Rock fill Dams and Slope			
	Stability Water Resources Systems			
	Analysis Industrial Waste Water			
	Treatment			
A70195	Concrete & Highway Materials Lab	-	3	2
A70192	Environmental Engineering Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Regulation: R - 13

Code	Subject	L	T/P/ D	C
A80151 A80148 A80147 A80141	Elective-IV	4	-	4
	Rehabilitation and Retrofitting of			
	Structures Geo-Environmental			
	Engineering			
	Design and Drawing of Irrigation			
	Structures Solid Waste			
	Management			
A80150	Prestressed Concrete Structures	4	-	4
A80146	Construction Management	4	-	4
A80087	Industry Oriented Mini project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive viva	-	-	2
	Total	12	21	28

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1.3.2 Include your departmental syllabus copies and highlight the project work/field work/internship related subjects and submit the same.



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2016-2017

Sl.No	Regulations	No.of Course	Year of Study
1	R 16	41	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester
			IV YEAR I & II Semester

I YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basic Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	20	1	6	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	16	2	13	24

Academic Year: 2016-17

Sl.No	Regulations	No.of Courses	Year of Study
1	R 16	55	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester
4	R 13		IV YEAR I & II Semester

COURSE STRUCTURE & SYLLABUS

I YEAR I SEMESTER

Regulation: R – 16

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	MA102BS	Mathematics-II	4	1	0	4
3	PH103BS	Engineering Physics	3	0	0	3
4	CS104ES	Computer Programming in C	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	ME106ES	Engineering Graphics	2	0	4	4
7	PH107BS	Engineering Physics Lab	0	0	3	2
8	CS108ES	Computer Programming in C Lab	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	18	2	10	24

I YEAR II SEMESTER

Regulation: R – 16

S. No	Course Code	Course Title	L	T	P	Credits
1	AP201BS	Applied Physics	3	0	0	3
2	CH202BS	Engineering Chemistry	4	0	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	EN204HS	Professional Communication in English	3	0	0	3
5	EE205ES	Basic Electrical and Electronics Engineering	4	0	0	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	EN207HS	English Language Communication Skills Lab	0	0	3	2
8	ME208ES	Engineering Workshop	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	18	1	9	24

II YEAR I SEMESTER**Regulation: R – 15**

Code	Subject	L	T/P/D	C
A30009	Environmental Studies	4	-	4
A30008	Probability and Statistics	4	-	4
A30203	Electrical and Electronics Engineering	4	-	4
A30104	Mechanics of Solids	4	-	4
A30306	Thermodynamics	4	-	4
A31803	Metallurgy and Materials Science	4	-	4
A30281	Electrical and Electronics Engineering Lab	-	3	2
A30085	Metallurgy & Mechanics of Solids Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER**Regulation: R – 15**

Code	Subject	L	T/P/D	C
A40312	Production Technology	4	-	4
A40309	Kinematics of Machinery	4	-	4
A40313	Thermal Engineering -I	4	-	4
A40112	Mechanics of Fluids and Hydraulic Machines	4	-	4
A40310	Machine Drawing	-	6	4
A40006	Mathematics-II	4	-	4
A40382	Production Technology Lab	-	3	2
A40188	Mechanics of Fluids & Hydraulic Machines Lab	-	3	2
	Total	20	12	28

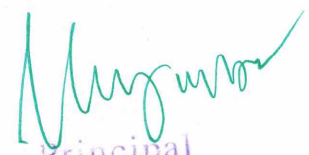

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III YEAR I SEMESTER**Regulation: R – 13**

Code	Subject	L	T/P/D	C
A50010	Managerial Economics and Financial Analysis	4	-	4
A50318	Engineering Metrology	4	-	4
A50317	Dynamics of Machinery	4	-	4
A50321	Machine Tools	4	-	4
A50316	Design of Machine Members – I	4	-	4
A50326	Thermal Engineering -II	4	-	4
A50384	Machine Tools & Metrology Lab	-	3	2
A50383	Thermal Engineering Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER**Regulation: R – 13**

Code	Subject	L	T/P/D	C
A62405	Automobile Engineering	4	-	4
A60330	Finite Element Methods	4	-	4
A60334	Refrigeration and Air Conditioning	4	-	4
A60329	Design of Machine Members – II	4	-	4
A60331	Heat Transfer	4	-	4
	Open Elective			
A60117	Disaster Management	4	-	4
A60017	Intellectual Property Rights			
A60018	Human Values and Professional Ethics			
A60387	Heat Transfer Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28


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IV YEAR I SEMESTER

Regulation: R – 13

Code	Subject	L	T/P/D	C
A70352	Operations Research	4	-	4
A70353	Power Plant Engineering	4	-	4
A70328	CAD/CAM	4	-	4
A70343	Instrumentation and Control Systems	4	-	4
ELECTIVE – I				
A70355	Robotics	4	-	4
A70346	Mechanical Vibrations			
A70348	Mechatronics			
A70347	Mechanics of Composite Materials			
A70332	Industrial Management			
ELECTIVE – II				
A70359	Unconventional Machining	4	-	4
A70337	ProcessesCNC Technology			
A70336	Automation in Manufacturing			
A70339	Design for Manufacturing			
A72909	Nanotechnology			
A70390	Computer Aided Design & Manufacturing Lab	-	3	2
A70391	Production Drawing Practice and Instrumentation Lab	-	3	2
Total		24	6	28

IV YEAR II SEMESTER

Regulation: R – 13

Code	Subject	L	T/P/D	C
A80366	Production Planning and Control	4	-	4
ELECTIVE – III				
A80527 A80367 A80363 A80365	Artificial Neural NetworksTotal Quality Management Maintenance and Safety Engineering Plant Layout & Material Handling	4	-	4
ELECTIVE – IV				
A80324 A80362 A80338 A80361	Renewable Energy Sources Jet Propulsion & Rocket Engineering Computational Fluid Dynamics Gas Dynamics	4	-	4
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
Total		12	21	28

COURSE STRUCTURE & SYLLABUS (2016-17)**II YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathematics – IV	4	1	0	4
2	EC302ES	Analog Electronics	4	1	0	4
3	EC303ES	Electrical Technology	4	1	0	4
4	EC304ES	Signals and Stochastic Process	3	1	0	3
5	EC305ES	Network Analysis	3	1	0	3
6	EC306ES	Electronic Devices and Circuits Lab	0	0	3	2
7	EC307ES	Basic Simulation Lab	0	0	3	2
8	EC308ES	Basic Electrical Engineering Lab	0	0	3	2
9	*MC300ES	Environmental Science and Technology	3	0	0	0
		Total Credits	21	5	9	24

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC401ES	Switching Theory and Logic Design	3	1	0	3
2	EC402ES	Pulse and Digital Circuits	4	0	0	4
3	EE404ES	Control Systems	4	1	0	4
4	EC405ES	Analog Communications	4	0	0	4
5	SM405MS	Business Economics and Financial Analysis	3	0	0	3
6	EC406ES	Analog Communications Lab	0	0	3	2
7	EC407ES	Pulse and Digital Circuits Lab	0	0	3	2
8	EC408ES	Analog Electronics Lab	0	0	3	2
9	*MC400HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	2	12	24

III YEAR COURSE STRUCTURE & SYLLABUS (R16)

Applicable From 2016-17 Admitted Batch

III YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
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1	EC501PC	Electromagnetic Theory and Transmission Lines	4	1	0	4
2	EC502PC	Linear and Digital IC Applications	4	0	0	4
3	EC503PC	Digital Communications	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective – I	3	0	0	3
6	EC505PC	Linear IC Applications Lab	0	0	3	2
7	EC506PC	Digital IC Applications Lab	0	0	3	2
8	EC507PC	Digital Communications Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	2	9	24

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-II	3	0	0	3
2		Professional Elective-I	3	0	0	3
3	EC601PC	Antennas and Wave Propagation	4	0	0	4
4	EC602PC	Microprocessors and Microcontrollers	4	0	0	4
5	EC603PC	Digital Signal Processing	4	0	0	4
6	EC604PC	Digital Signal Processing Lab	0	0	3	2
7	EC605PC	Microprocessors and Microcontrollers Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	0	9	24

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A70014	Management Science	4	-	4
A70442	Microwave Engineering	4	-	4
A70515	Computer Networks	4	-	4
A70434	Cellular and Mobile Communications	4	-	4
	Elective -I:	4	-	4
A70436	Digital Image Processing			
A70443	Multimedia and Signal Coding			
A70505	Object Oriented Programming through Java			
	Elective -II:	4	-	4
A70447	Television Engineering			
A70444	Optical Communications			
A70440	Embedded Systems Design			
A70086	Advanced Communication Skills Lab,	-	3	2
A70499	Microwave Engineering and Digital Communications Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

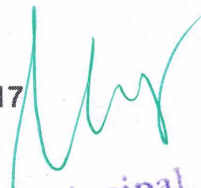
Code	Subject	L	T/P/D	C
A70511	Linux Programming	4	-	4
A70530	Design Patterns	4	-	4
A70520	Data Warehousing and Data Mining	4	-	4
A70519	Cloud Computing	4	-	4
ELECTIVE – I				
A70540	Software Project Management	4	-	4
A70532	Image processing and Pattern			
A70536	RecognitionMobile Computing			
A70529	Computer Graphics			
A70352	Operations Research			
ELECTIVE – II				
A70534	Machine Learning	4	-	4
A70539	Soft Computing			
A70533	Information Retrieval Systems			
A70526	Artificial Intelligence			
A70628	Computer Forensics			
A70596	Linux Programming Lab	-	3	2
A70595	Data Warehousing and Mining Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Regulation: R – 13

Code	Subject	L	T/P/D	C
A80014	Management Science	4	-	4
ELECTIVE III		4	-	4
A80551	Web Services			
A80538	Semantic Web and Social Networks			
A80537	Scripting Languages			
A80547	Multimedia & Rich Internet Applications			
ELECTIVE – IV		4	-	4
A80542	Ad hoc and Sensor Networks			
A80550	Storage Area Networks			
A80543	Database Security			
A80439	Embedded Systems			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
Total		12	21	28

Academic Year: 2016-17


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Sl.No	Regulations	No.of Courses	Year of Study
1	R 16	53	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester
4	R 13		IV YEAR I & II Semester

I YEAR I SEMESTER

Regulation: R - 16

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basic Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
Total Credits			20	1	6	24

I YEAR II SEMESTER

Regulation: R - 16

S. No.	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
Total Credits			16	2	13	24

*Mandatory Course – Satisfactory/Unsatisfactory.

II YEAR I SEMESTER

Regulation: R – 15


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Code	Subject	L	T/P/D	C
A30008	Probability and Statistics	4	-	4
A30504	Mathematical Foundations of Computer Science	4	-	4
A30502	Data Structures	4	-	4
A30401	Digital Logic Design	4	-	4
A30404	Electronic Devices and Circuits	4	-	4
A30202	Basic Electrical Engineering	4	-	4
A30282	Electrical and Electronics Lab	-	3	2
A30582	Data Structures Lab	-	3	2
	Total	24	6	28

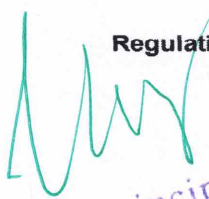
II YEAR II SEMESTER

Regulation: R – 15

Code	Subject	L	T/P/D	C
A40506	Computer Organization	4	-	4
A40507	Database Management Systems	4	-	4
A40503	Java Programming	4	-	4
A40009	Environmental studies	4	-	4
A40509	Formal Languages and Automata Theory	4	-	4
A40508	Design and Analysis of Algorithms	4	-	4
A40585	Java Programming Lab	-	3	2
A40584	Database Management Systems Lab	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Regulation: R – 13


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Code	Subject	L	T/P/D	C
A50511	Principles of Programming Languages	4	-	4
	OPEN ELECTIVE	4	-	4
A50018	Human Values and Professional Ethics			
A50017	Intellectual Property Rights			
A50117	Disaster Management			
A50518	Software Engineering	4	-	4
A50514	Compiler Design	4	-	4
A50510	Operating Systems	4	-	4
A50515	Computer Networks	4	-	4
A50589	Operating Systems Lab	-	3	2
A50587	Compiler Design Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Regulation: R – 13

Code	Subject	L	T/P/D	C
A60521	Distributed Systems	4	-	4
A60522	Information Security	4	-	4
A60524	Object Oriented Analysis and Design	4	-	4
A60525	Software Testing Methodologies	4	-	4
A60010	Managerial Economics and Financial Analysis	4	-	4
A60512	Web Technologies	4	-	4
A60591	Case Tools and Web Technologies Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Regulation: R – 13

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Code	Subject	L	T/P/D	C
A70511	Linux Programming	4	-	4
A70530	Design Patterns	4	-	4
A70520	Data Warehousing and Data Mining	4	-	4
A70519	Cloud Computing	4	-	4
ELECTIVE – I				
A70540	Software Project Management	4	-	4
A70532	Image processing and Pattern			
A70536	RecognitionMobile Computing			
A70529	Computer Graphics			
A70352	Operations Research			
ELECTIVE – II				
A70534	Machine Learning	4	-	4
A70539	Soft Computing			
A70533	Information Retrieval Systems			
A70526	Artificial Intelligence			
A70628	Computer Forensics			
A70596	Linux Programming Lab	-	3	2
A70595	Data Warehousing and Mining Lab	-	3	2
Total		24	6	28

IV YEAR II SEMESTER

Regulation: R – 13

Code	Subject	L	T/P/D	C
A80014	Management Science	4	-	4
ELECTIVE III		4	-	4
A80551	Web Services			
A80538	Semantic Web and Social Networks			
A80537	Scripting Languages			
A80547	Multimedia & Rich Internet Applications			
ELECTIVE – IV		4	-	4
A80542	Ad hoc and Sensor Networks			
A80550	Storage Area Networks			
A80543	Database Security			
A80439	Embedded Systems			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
Total		12	21	28



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2016-2017

Sl.No	Regulations	No.of Course	Year of Study
1	R 16	38	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester
	R 13		IV YEAR I & II Semester

I YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basic Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	20	1	6	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2

9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	16	2	13	24

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30007	Mathematics - III	4	-	4
A30405	Probability Theory and Stochastic Processes	4	-	4
A30407	Switching Theory and Logic Design	4	-	4
A30204	Electrical Circuits	4	-	4
A30404	Electronic Devices and Circuits	4	-	4
A30406	Signals and Systems	4	-	4
A30482	Electronic Devices and Circuits Lab.	-	3	2
A30481	Basic Simulation Lab.	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A40215	Principles of Electrical Engineering	4	-	4
A40412	Electronic Circuit Analysis	4	-	4
A40415	Pulse and Digital Circuits	4	-	4
A40009	Environmental Studies	4	—	4
A40411	Electromagnetic Theory and Transmission Lines	4	-	4
A40410	Digital Design using Verilog HDL	4	-	4
A40288	Electrical Technology Lab.	-	3	2
A40484	Electronic Circuits and Pulse Circuits Lab.	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50217	Control Systems Engineering	4	-	4
A50516	Computer Organization and Operating Systems	4	-	4
A50418	A. [REDACTED]	4	-	4
A50422	Electronic Measurements and Instrumentation	4	-	4
A50408	Analog Communications	4	-	4
A50425	Linear and Digital IC Applications	4	-	4
A50482	Analog Communications Lab.	-	3	2
A50488	IC Applications and HDL Simulation Lab.	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60010	Managerial Economics and Financial Analysis	4	-	4
	Open Elective:	4	-	4
A60018	Human Values and Professional Ethics			
A60117	Disaster Management			
A60017	Intellectual Property Rights			
A60420	Digital Communications	4	-	4
A60432	VLSI Design	4	-	4
A60430	Microprocessors and Microcontrollers	4	-	4
A60421	Digital Signal Processing	4	-	4
A60494	Microprocessors and Microcontrollers Lab.	-	3	2
A60493	Digital Signal Processing Lab.	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A70014	Management Science	4	-	4
A70442	Microwave Engineering	4	-	4
A70515	Computer Networks	4	-	4
A70434	Cellular and Mobile Communications	4	-	4
	Elective -I:	4	-	4
A70436	Digital Image Processing			
A70443	Multimedia and Signal Coding			
A70505	Object Oriented Programming through Java			
	Elective -II:	4	-	4
A70447	Television Engineering			
A70444	Optical Communications			
A70440	Embedded Systems Design			
A70086	Advanced Communication Skills Lab,	-	3	2
A70499	Microwave Engineering and Digital Communications Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective -III:	4	-	4
A80452	Satellite Communications			
A81102	Biomédical			
A80527	InstrumentationArtificial Neural Networks			
	Elective -IV:	4	-	4
A80431	Telecommunication Switching Systems and Networks			
A80450	Radar Systems			
A80449	Network Security			
	Elective -V:	4	-	4
A80454	Wireless Communications and Networks			
A80437	Digital Signal Processors and Architectures			
A80451	RF Circuit Design			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Major Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
	Total	12	21	28

Include your departmental syllabus copies and highlight the project work/field work/internship related subjects and submit the same.



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1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

DEPARTMENT OF M.Tech. (CSE)

ACADEMIC YEAR: 2016-17

Sl.No	Regulations	Average Percentage of Courses	Year of Study
1	R 15	14	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester

COURSE STRUCTURE AND SYLLABUS

I YEAR I – SEMESTER

Regulation: R - 15

Code	Group	Subject	L	P	Credits
		Advanced Data Structures and Algorithms	3	-	3
		Computer System Design	3	-	3
		Advanced Operating Systems	3	-	3
		Distributed Systems	3	-	3
	Elective -I	Software Process and Project Management Natural Language Processing Pattern Recognition	3	-	3
	Elective -II	Machine Learning Parallel and Distributed Algorithms Software Architecture and Design Patterns	3	-	3
	Lab	Advanced Data Structures and Algorithms Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I YEAR II – SEMESTER

Regulation: R - 15

Code	Group	Subject	L	P	Credits
		Advanced Network Programming	3	-	3
		Advanced Databases	3	-	3
		Web Services and Service Oriented Architecture	3	-	3
		Grid and Cloud Computing	3	-	3
	Elective -III	Advanced Data Mining Storage Area Networks Database Security	3	-	3
	Elective -IV	Semantic Web and Social Networks Wireless Networks and Mobile Computing Information Retrieval Systems	3	-	3
	Lab	Web Services Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22


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II YEAR I – SEMESTER**Regulation: R - 15**

Code	Group	Subject	L	P	Credits
		Comprehensive Viva	-	-	2
		Project Seminar	0	3	2
		Project work	-	-	18
		Total Credits	-	3	22

II YEAR II – SEMESTER**Regulation: R - 15**

Code	Group	Subject	L	P	Credits
		Project work and Seminar	-	-	22
		Total Credits	-	-	22

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1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

DEPARTMENT OF MBA

ACADEMIC YEAR: 2016-17

Sl.No	Regulations	Average Percentage of Courses	Year of Study
1	R 15	25	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester

I Year I Semester

Regulation: R -15

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course II	MANAGEMENT AND ORGANISATIONAL BEHAVIOUR	25	75	3	-	3
Core Course II	BUSINESS LAWS & BUSINESS ENVIRONMENT	25	75	3	-	3
Core Course III	MANAGERIAL ECONOMICS	25	75	3	-	3
Core Course IV	FINANCIAL ACCOUNTING & ANALYSIS	25	75	3	-	3
Core Course V	STATISTICS FOR MANAGEMENT	25	75	3	-	3
Open Elective I	- CROSS CULTURE MANAGEMENT - WTO & IPR - TOTAL QUALITY MANAGEMENT - PROJECT MANAGEMENT	25	75	3	-	3
Laboratory	STATISTICAL DATA ANALYSIS - LAB	50	-	-	4	2
Seminar	BUSINESS COMMUNICATION- SEMINAR	50	-	-	4	2
Total Credits				18	8	22

I Year II Semester

Regulation: R -15

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	HUMAN RESOURCE MANAGEMENT	25	75	3	-	3
Core Course II	MARKETING MANAGEMENT	25	75	3	-	3
Core Course III	FINANCIAL MANAGEMENT	25	75	3	-	3
Core Course IV	QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS	25	75	3	-	3
Core Course V	MIS & ERP	25	75	3	-	3
Open Elective I	- FOREIGN TRADE - BANKING, INSURANCE & RISK MANAGEMENT - LOGISTICS & SUPPLY CHAIN MANAGEMENT - MSME MANAGEMENT	25	75	3	-	3
Laboratory	ANNUAL REPORT ANALYSIS - LAB	50	-	-	4	2
Seminar	SUMMER INTERNSHIP - SEMINAR	50	-	-	4	2
Total Credits				18	8	22

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II Year I Semester

Regulation: R -15

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	PRODUCTION & OPERATIONS MANAGEMENT	25	75	3	-	3
Core Course II	STRATEGIC MANAGEMENT	25	75	3	-	3
Core Course III	RESEARCH METHDOLOGY	25	75	3	-	3
Core Elective I	(MRKG/HRM/FIN)	25	75	3	-	3
Core Elective II	(MRKG/HRM/FIN)	25	75	3	-	3
Core Elective III	(MRKG/HRM/FIN)	25	75	3	-	3
Seminar	PERSONAL EFFECTIVENESS - SEMINAR	50	-	-	4	2
Seminar	BUSINESS BEST PRACTICES AND SUCCESS STORIES OF EMERGING LEADERS - SEMINAR	50	-	-	4	2
Total Credits				18	8	22

II Year II Semester

Regulation: R -15

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	ENTREPRENUERSHIP	25	75	3	-	3
Core Course II	MANAGEMENT OF TECHNOLOGY	25	75	3	-	3
Core Elective IV	(MRKG/HRM/FIN)	25	75	3	-	3
Core Elective V	(MRKG/HRM/FIN)	25	75	3	-	3
Core Elective VI	(MRKG/HRM/FIN)	25	75	3	-	3
Seminar	PRE SUBMISSION OF PROJECT -SEMINAR	50	-	-	4	2
	COMPREHENSIVE VIVA	-	100	-	4	2
	PROJECT	25	75	-	-	3
Total Credits				15	8	22


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CORE ELECTIVE STREAMS (choose any one stream subjects as Core Electives)

MARKETING ELECTIVES
CONSUMER BEHAVIOUR
SALES AND DISTRIBUTION
INTEGRATED MARKETING COMMUNICATIONS
FINANCE ELECTIVES
STRATEGIC MANAGEMENT ACCOUNTING
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
FINANCIAL INSTITUTIONS, MARKETS & SERVICES
HR ELECTIVES
PERFORMANCE MANAGEMENT
TRAINING AND DEVELOPMENT
MANAGEMENT OF INDUSTRIAL RELATIONS



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1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

DEPARTMENT OF MCA

ACADEMIC YEAR: 2016-17

Sl.No	Regulations	Average Percentage of Courses	Year of Study
1	R 15	41	I YEAR I & II Semester
2	R 15		II YEAR I & II Semester
3	R 13		III YEAR I & II Semester

I Year - I Semester

Regulation: R - 15

Category	Course Title	Int. Marks	Ext. Marks	L	P	C
Core Course - I	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	25	75	4	--	4
Core Course - II	COMPUTER ORGANIZATION	25	75	4	--	4
Core Course - III	COMPUTER PROGRAMMING USING C	25	75	4	--	4
Core Course - IV	PROBABILITY AND STATISTICS	25	75	4	--	4
Core Course - V	ACCOUNTING AND FINANCIAL MANAGEMENT	25	75	4	--	4
Laboratory - I	IT WORKSHOP	25	75	--	4	2
Laboratory - II	COMPUTER PROGRAMMING USING C LAB	25	75	--	4	2
Laboratory - III	COMPUTER ORGANIZATION LAB	25	75	--	4	2
Total Credits				20		26

I Year - II Semester

Regulation: R - 15

Category	Course Title	Int. Marks	Ext. Marks	L	P	C
Core Course - I	Data Structures and Algorithms	25	75	4	--	4
Core Course - II	Object Oriented programming using C++	25	75	4	--	4
Core Course - III	Scripting Languages	25	75	4	--	4
Core Course - IV	Operations Research	25	75	4	--	4
Core Course - V	Software Engineering	25	75	4	--	4
Laboratory - I	Data Structures Lab Using C++	25	75	--	4	2
Laboratory - II	Software Engineering Lab	25	75	--	4	2
Laboratory - III	English Language Communication Skills Lab	25	75	--	4	2
Total Credits				20		26

II Year - I Semester

Regulation: R - 15

Category	Course Title	Int. Marks	Ext. Marks	L	P	C
Core Course - I	DATA BASE MANAGEMENT SYSTEMS	25	75		--	
Core Course - II	COMPUTER NETWORKS	25	75		--	
Core Course - III	OPERATING SYSTEMS	25	75			
Core Course - IV	OBJECT ORIENTED ANALYSIS AND DESIGN USING UML	25	75			
Core Course - V	JAVA PROGRAMMING	25	75			
Laboratory - I	DATABASE MANAGEMENT SYSTEMS LAB	25	75			
Laboratory - II	JAVA PROGRAMMING LAB	25	75			
Total Credits						

II Year - II Semester

Regulation: R - 15

Category	Course Title	Int. Marks	Ext. Marks	L	P	C
Core Course - I	WEB TECHNOLOGIES	25	75		--	
Core Course - II	LINUX PROGRAMMING	25	75		--	
Core Elective-I	1. MANAGEMENT INFORMATION SYSTEMS 2. ORGANIZATION STRUCTURE AND PERSONNEL MANAGEMENT 3. INFORMATION SECURITY	25	75			
Core Elective II	1. DISTRIBUTED SYSTEMS 2. SOFTWARE PROCESS AND PROJECT MANAGEMENT 3. SOFT COMPUTING	25	75			
Laboratory - I	WEB TECHNOLOGIES LAB	25	75			
Laboratory - II	LINUX PROGRAMMING LAB	25	75			
Total Credits						



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III Year - I Semester

Regulation: R - 13

Category	Course Title	Int. Marks	Ext. Marks	L	P	C
Core Course - I	ANDROID MOBILE APPLICATION DEVELOPMENT	25	75		--	
Core Course - II	SOFTWARE TESTING METHODOLOGIES	25	75		--	
Core Elective-III	1. WEB SERVICES 2. DISTRIBUTED DATABASES 3. INFORMATION RETRIEVAL SYSTEMS	25	75		--	
Core Elective-IV	1. ETHICAL HACKING 2. MULTIMEDIA AND RICH INTERNET APPLICATIONS 3. SEMANTIC WEB AND SOCIAL NETWORKS	25	75		--	
Laboratory - I	ANDROID MOBILE APPLICATION DEVELOPMENT LAB	25	75			
Laboratory - II	SOFTWARE TESTING METHODOLOGIES AND UML LAB	25	75			
Total Credits						

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