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2015-16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	**19**	**16**	**56**

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30007	Mathematics – III	4	-	4
A30102	Fluid Mechanics and Hydraulic Machinery	4	-	4
A30404	Electronic Devices & Circuits	4	-	4
A30204	Electrical Circuits	4	-	4
A30403	Electromagnetic fields	4	-	4
A30206	Electrical Machines-I	4	-	4
A30181	Fluid Mechanics and Hydraulic Machinery Lab	-	3	2
A30482	Electronic devices & Circuit labs	-	3	2
	Total	**24**	**6**	**28**

Shadan College of Engineering & Technology ★ Peeran Cheru ★ College Code: 08 Hyderabad-86, T.S.

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II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A40010	Managerial Economics & Financial Analysis	4	-	4
A40214	Power Systems-I	4	-	4
A40413	Electronic Circuits	4	-	4
A40407	Switching Theory and Logic Design	4	-	4
A40213	Network Theory	4	-	4
A40212	Electrical Machines-II	4	-	4
A40287	Electrical Machines lab -I	-	3	2
A40286	Electrical Circuits and Simulation Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50423	IC Applications	4	-	4
A50014	Management Science	4	-	4
A50221	Power Systems-II	4	-	4
A50211	Control Systems	4	-	4
A50220	Power Electronics	4	-	4
A50218	Electrical Machines-III	4	-	4
A50289	Electrical Machines lab –II	-	3	2
A50086	Advanced Communication Skills Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60223	Electrical and Electronics Instrumentation	4	-	4
A60225	Static Drives	4	-	4
A60222	Computer Methods in Power Systems	4	-	4
A60430	Microprocessors and Interfacing Devices	4	-	4
A60009	Environmental Studies	4	-	4
A60117 A60017 A60018	**Open Elective** Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
A60290	Control Systems and Simulation Lab	-	3	2
A60291	Power Electronics and Simulation Lab	-	3	2
	Total	**24**	**6**	**28**





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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. ELECTRICAL & ELECTRONICS ENGINEERING

II YEAR II SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/D	C
54007	Managerial Economics & Financial Analysis	4	-	4
54008	Power Systems – I	3	1	3
54009	Electronic Circuits	3	1	3
54010	Switching Theory and Logic Design	4	1	4
54011	Network Theory	3	1	3
54012	Electrical Machines – II	4	1	4
54602	Electrical Machines Lab – I	-	3	2
54603	Electric Circuits and Simulation Lab.	-	3	2
	Total	21	11	25

III YEAR I SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/D	C
55009	IC Applications	3	1	3
55010	Management Science	3	1	3
55011	Power Systems – II	4	-	4
55012	Control Systems	3	1	3
55013	Power Electronics	4	1	4
55014	Electrical Machines – III	4	1	4
55602	Electrical Machines Lab – II	-	3	2
55603	Control Systems and Simulation Lab.	-	3	2
	Total	21	11	25

Shadan College of Technology Peeran Cheru Hyderabad College Code: 08

JAWAHARLAL NEHRU TECHNOLOGICAL UNI HYDERABAD

B.TECH. ELECTRICAL & ELECTRONICS ENGINEE

III YEAR II SEMESTER COURSE STRUCT

Code	Subject	L
56009	Electrical Measurements	3
56010	Power Semiconductor Drives	4
56011	Computer Methods in Power Systems	4
56012	Microprocessors and Microcontrollers	4
	Open Elective	3
56013	Renewable Energy Sources	
56008	Intellectual Property Rights	
56014	Nanotechnology	
56015	Environmental Studies	3
56602	Advanced English Communication Skills Lab.	-
56603	Power Electronics and Simulation Lab.	-
	Total	21

IV YEAR I SEMESTER COURSE STRUCT

Code	Subject	L
57012	Switchgear and Protection	3
57013	Utilization of Electrical Energy	3
57014	Instrumentation	3
57015	Power System operation and Control	4
	Elective – I	4
57016	High Voltage Engineering	
57017	VLSI Design	
57018	Digital Contro' Systems	
	Elective – II	4
57019	Optimization Techniques	
57020	Electrical Distribution Systems	
57021	Principles of Digital Signal Processing	
57603	Microprocessors & Microcontrollers Lab	-
57604	Electrical Measurements Lab	-
	Total	21

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. ELECTRICAL & ELECTRONICS ENGINEERING

IV YEAR II SEMESTER **COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
58008	HVDC Transmission	3	-	3
	Elective – III	3	1	3
58009	Neural Networks and Fuzzy Logic			
58010	Linear Systems Analysis			
58011	Reliability Engineering and Application to Power Systems			
	Elective – IV	3	1	3
58012	Advanced Control Systems			
58013	EHV AC Transmission			
58014	Computer System Organization			
58605	Industry Oriented Mini Project	-	-	2
58606	Seminar	-	6	2
58607	Major Project	-	15	10
58608	Comprehensive Viva	-	-	2
	Total	9	23	25

Note: All End Examinations (Theory and Practical) are of three hours duration.

T - Tutorial
P – Practical/Drawing
L – Theory
C – Credits

Shadan College of Engineering & Technology
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAE

I Year B. Tech. EEE.	L	T/P/D
	2	-/-/-4

(51001) ENGLISH

1. INTRODUCTION:

In view of the growing importance of English as a tool for communication and the consequent emphasis on training stude acquire communicative competence, the syllabus has been desig develop linguistic and communicative competence of Engin students. The prescribed books and the exercises are meant to broadly as students' handbooks.

In the English classes, the focus should be on the skills of re writing, listening and speaking and for this the teachers should u text prescribed for detailed study. For example, the students sho encouraged to read the texts/selected paragraphs silently. The tea can ask comprehension questions to stimulate discussion and on the discussions students can be made to write short parag essays etc.

The text for non-detailed study is for extensive reading/reading for ple by the students. Hence, it is suggested that they read it on their ow topics selected for discussion in the class. The time should be utiliz working out the exercises given after each section , as al supplementing the exercises with authentic materials of a similar k example, from newspaper articles, advertisements, promotional m etc.. *However, the stress in this syllabus is on skill development and p of language skills.*

2. OBJECTIVES:

a. To improve the language proficiency of the students in Englis emphasis on LSRW skills.

b. To equip the students to study academic subjects with greater through the theoretical and practical components of the E syllabus.

c. To develop the study skills and communication skills in form informal situations.

3. SYLLABUS:

Listening Skills:

Objectives

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	**19**	**16**	**56**

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**

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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	Antennas and Wave Propagation	4	-	4
A50422	Electronic Measurements and Instrumentation	4	-	4
A50406	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
A60018 A60117 A60017	**Open Elective:** Human Values and Professional Ethics Disaster Management Intellectual Property Rights	4	-	4
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**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

II YEAR II SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/D	C
54019	Principles of Electrical Engineering	3	1	3
54020	Electronic Circuit Analysis	4	-	4
54021	Pulse & Digital Circuits	4	1	4
54010	Switching Theory & Logic Design	4	1	4
54011	Electromagnetic Theory & Transmission Lines	4	1	4
54606	Electrical Engineering Lab.	-	3	2
54607	Electronic Circuit Analysis Lab.	-	3	2
54608	Pulse & Digital Circuits Lab.	-	3	2
	Total	19	13	25

III YEAR I SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/D	C
55012	Control Systems.	4	-	4
55021	Computer Organization	4	1	4
55022	Antennas & Wave Propagation	3	1	3
55023	Electronic Measurements & Instrumentation	4	1	4
55024	Analog Communications	3	1	3
55009	IC Applications	3	1	3
55606	Analog Communications Lab.	-	3	2
55607	IC Applications Lab.	-	3	2
	Total	21	11	25

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVER HYDERABAD

B.TECH. ELECTRONICS & COMMUNICATION ENGINEERI

III YEAR II SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/I
56023	Managerial Economics & Financial Analysis	4	-
	OPEN ELECTIVE	4	1
56024	Operating Systems		
56025	Object Oriented Programming		
56014	Nano technology		
56026	Digital Communications	3	1
56012	Microprocessors & Microcontrollers	4	1
56027	Digital Signal Processing	4	1
56606	Microprocessors & Microcontrollers Lab.	-	3
56607	Digital Signal Processing Lab.	-	3
56608	Adv. English Language Communication Skills Lab.	-	3
	Total	19	13

IV YEAR I SEMESTER COURSE STRUCTURE

Code	Subject	L	T/P/I
57034	Management Science	3	1
57035	VLSI Design	4	-
57036	Microwave Engineering	3	1
57037	Computer Networks	4	1
	ELECTIVE – I	3	1
57038	EMI/EMC		
57039	DSP Processors & Architectures		
57040	Telecommunication Switching Systems		
57041	Digital Image Processing		
	ELECTIVE – II	4	1
57042	Optical Communications		
57043	Embedded Systems		
57044	Television Engineering		
57045	Multimedia and Signal coding		
57607	e-CAD/VLSI Lab	-	3
57608	Microwave Engg. & Digital Comms. Lab	-	3
	Total	21	11

College Code 08 PRINCIPAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING

IV YEAR II SEMESTER **COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
	ELECTIVE-III			
58024	Cellular & Mobile Communications			
58025	Satellite Communications			
58026	Biomedical Instrumentation			
58016	Artificial Neural Networks	3	1	3
	ELECTIVE – IV			
58027	Internetworking			
58028	Radar Systems			
58029	Spread Spectrum Communications			
58030	Network Security	3	1	3
	ELECTIVE –V			
58031	RF Circuit Design			
58032	Wireless Communications & Networks			
58033	Digital Design through Verilog HDL			
58034	Pattern Recognition	3	1	3
58613	Industry Oriented Mini Project	-	-	2
58614	Seminar	-	6	2
58615	Major Project	-	15	10
58616	Comprehensive Viva	-	-	2
	Total	9	24	25

Note: All End Examinations (Theory and Practical) are of three hours duration.

T - Tutorial **L – Theory**
P – Practical/Drawing **C – Credits**

Shadan College of Engineering & Technology College Code 08 Hyderabad Peeran Cheru

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERA

I Year B.Tech ECE.	L	T/P/D
	2	-/-/-

(51001) ENGLISH

1. INTRODUCTION:

In view of the growing importance of English as a tool for communication and the consequent emphasis on training stude acquire communicative competence, the syllabus has been des to develop linguistic and communicative competence of Engin students. The prescribed books and the exercises are meant to broadly as students' handbooks.

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2. OBJECTIVES:

a. To improve the language proficiency of the students in E with emphasis on LSRW skills.

b. To equip the students to study academic subjects with g facility through the theoretical and practical components English syllabus.

c. To develop the study skills and communication skills in and informal situations

3. SYLLABUS:

Listening Skills:

Objectives

Shadan College of Engineering & Technology Peeran Cheru, Hyderabad-86, T.S. College Code: 08

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. CIVIL ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10302	Engineering Mechanics	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics & Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

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

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College Code: 08

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A40006	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

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
A50117 A50017 A50018	**Open Elective** Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
A50181	Fluid Mechanics & Hydraulic Machinery Lab	-	3	2
A50191	Engineering Geology Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

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
A60123 A60127 A60128 A60124 A60129	**Elective -I** Elements of Earthquake Engineering Ground Improvement Techniques Ground Water Hydrology Environmental Impact Assessment Principles of Entrepreneurship	4	-	4
A60194	Geotechnical Engineering Lab	-	3	2
A60088	Advanced Communication Skills Lab	-	3	2
	Total	23	8	28

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Peeran Cheru, Hyderabad-86, T.S.
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56002	Environmental Engineering	3	1	
56003	Water Resources Engineering-II	3	1	
56004	Geotechnical Engineering - II	3	1	
56005	Transportation Engineering	4	1	
	Open Elective	4	-	
56006	Construction Technology and Project Management			
56007	Urban Disaster Intelligent Controls Systems			
56008	Intellectual Property Rights			
56600	Geotechnical Engineering Lab	-	3	
56601	Advanced English Communication Skills Lab	-	3	
	Total	**20**	**13**	**2**

IV YEAR I SEMESTER **COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
	Elective-II	4	-	4
57001	Ground Water Development and Management			
57002	Advanced Structural Design			
57003	Elements of Earthquake Engineering			
57004	Watershed Management			
57005	GIS & Remote Sensing	3	1	3
57006	Pavement Design	3	1	3
57007	Estimating & Costing	3	1	3
	Elective-III	4	1	4
57008	Water Resources Planning & Management			
57009	Finite Element Methods			
57010	Disaster Management and Mitigation			
57011	Advanced Foundation Engineering	4	1	4
57601	Concrete & Highway Materials Lab	-	3	2
57602	Environmental Engineering Lab	-	3	2
	Total	21	11	2

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. CIVIL ENGINEERING

IV YEAR II SEMESTER **COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
	Elective-IV	3	1	3
58001	Ground Improvement Techniques			
58002	Design & Drawing of Irrigation Structures			
58003	Airport Planning and Design			
58004	Prestressed Concrete Structures			
58005	Data Base Management Systems			
58006	Rehabilitation & Retrofitting of Structures	3	1	3
58007	Management Science	3	-	3
58601	Industrial Training	-	-	2
58602	Seminar	-	6	2
58603	Project	-	15	10
58604	Comprehensive viva	-	-	2
	Total	9	23	25

Note: All End Examinations (Theory and Practical) are of three hours duration.

T - Tutorial L - Theory

P - Practical/Drawing C - Credits

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

I Year B.Tech. C.E.. L T/P/D

2 -/-/-

(51001) ENGLISH

1. INTRODUCTION:

In view of the growing importance of English as a tool for gl communication and the consequent emphasis on training students acquire communicative competence, the syllabus has been designe develop linguistic and communicative competence of Enginee students. The prescribed books and the exercises are meant to s broadly as students' handbooks.

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2. OBJECTIVES:

a. To improve the language proficiency of the students in English emphasis on LSRW skills.

b. To equip the students to study academic subjects with greater fac through the theoretical and practical components of the Engl syllabus.

c. To develop the study skills and communication skills in formal informal situations.

3. SYLLABUS

Listening Skills

Objectives

R13 - 2015-16
2-1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. COMPUTER SCIENCE AND ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

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

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II YEAR II SEMESTER

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

Code	Subject	L	T/P/D	C
A50511	Principles of Programming Languages	4	-	4
A50018 A50017 A50117	**OPEN ELECTIVE** Human Values and Professional Ethics Intellectual Property Rights Disaster Management	4	-	4
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

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**

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IV YEAR I SEMESTER **COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
57046	Linux Programming	4	1	4
57047	Software Testing Methodologies	4	1	4
57048	Data Warehousing and Data Mining	4	–	4
57049	Computer Graphics	3	1	3
	ELECTIVE–I	3	1	3
57050	Advanced Computer Architecture			
57051	Cloud Computing			
57052	Distributed Computing			
57053	Mobile Computing			
	ELECTIVE–II	3	1	3
57054	Design Patterns			
57055	Machine Learning			
57056	Soft Computing			
57057	Information Retrieval Systems			
57609	Linux Programming and Data Mining Lab	–	3	2
57610	Case Tools & Software Testing Lab	–	3	2
	Total	**21**	**11**	**25**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH. (COMPUTER SCIENCE)
COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Data Structures and Algorithms	**25**	**75**	**4**	--	**4**
Core Course II	Database Internals	25	75	4	--	4
Core Course III	Distributed Systems	25	75	4	--	4
Core Elective I	1. Network Security 2. Android Application Development 3. Cloud Computing 4. Internet of Things	25	75	4	--	4
Core Elective II	1. Machine Learning 2. Parallel and Distributed Algorithms 3. Software Architecture and Design Patterns 4. Embedded Systems	25	75	4	--	4
Open Elective I	**Open Elective – 1**	25	75	4	--	4
Laboratory I	Data Structures and Algorithms Lab	25	75	--	4	2
Seminar I		50	--	--	4	2
Total Credits				**24**	**8**	**28**

I Year – II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Network Programming	25	75	4	--	4
Core Course V	Information Retrieval Systems	25	75	4	--	4
Core Course VI	Internet Technologies and Services	25	75	4	--	4
Core Elective III	1. Data Mining 2. Storage Area Networks 3. Semantic Web and Social Networks 4. Cyber Security	25	75	4	--	4
Core Elective IV	1. Big Data Analytics 2. Soft Computing 3. Software Process and Project Management 4. Distributed Computing	25	75	4	--	4
Open Elective II	**Open Elective – 2**	25	75	4	--	4
Laboratory II	Internet Technologies and Services Lab	25	75	--	4	2
Seminar II		50	--	--	4	2
Total Credits			**24**	**8**	**28**	

II Year - I Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce		--	100	--	--	4
Project work Review I		50	--	--	24	12
Total Credits				--	24	**16**

II Year - II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II		50	--	--	8	4
Project Evaluation (Viva-Voce)		--	150	--	16	12
Total Credits				--	**24**	**16**

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2015-16 R15

Open Electives

1. Basic Computer Programming skills are required for all open electives. Additionally, knowledge on the specified area mentioned in prerequisites is required for opting the open elective
2. Note: A student can register for any open elective subject provided that he has not already registered for the same subject

S.NO	Open Electives	Prerequisites
1.	"R" Programming	Maths, Statistics
2.	Android Application Development	Java
3.	Algorithmics	----
4.	Big Data Analytics	Data Bases , Maths
5.	Bioinformatics	Data Structures
6.	Biometrics	----
7.	Cyber Security	Internet Technologies
8.	Computer Forensics	Maths, Data Structures
9.	Distributed Systems Security	Information Security
10.	E-Commerce	Internet Technologies
11.	Embedded Systems	Digital logic
12.	Information Security	Maths
13.	Intellectual Property Rights	---
14.	Internet of Things	Java
15.	Java Programming	---
16.	Linux Programming	---
17.	Mobile Computing	Java
18.	Mobile Application Security	Mobile Application Development
19.	OpenStack cloud computing	Linux Programming
20.	Operations Research	Maths, Data Structures
21.	Principles of Information Security	-----
22.	Scripting Languages	---
23.	Social Media Intelligence	---
24.	Software Engineering	---
25.	Storage Area Networks	Computer Networks
26.	Web Usability	------

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH. (COMPUTER SCIENCE AND ENGINEERING)
COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Data Structures and Algorithms	**25**	**75**	**4**	**--**	**4**
Core Course II	Database Internals	25	75	4	--	4
Core Course III	Distributed Systems	25	75	4	--	4
Core Elective I	1. Network Security 2. Android Application Development 3. Cloud Computing 4. Internet of Things	25	75	4	--	4
Core Elective II	1. Machine Learning 2. Parallel and Distributed Algorithms 3. Software Architecture and Design Patterns 4. Embedded Systems	25	75	4	--	4
Open Elective I	**Open Elective – 1**	25	75	4	--	4
Laboratory I	Data Structures and Algorithms Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
	Total Credits			**24**	**8**	**28**

I Year – II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Network Programming	25	75	4	--	4
Core Course V	Information Retrieval Systems	25	75	4	--	4
Core Course VI	Internet Technologies and Services	25	75	4	--	4
Core Elective III	**Core Elective– 3** 1. Data Mining 2. Storage Area Networks 3. Semantic Web and Social Networks 4. Cyber Security	25	75	4	--	4
Core Elective IV	**Core Elective– 4** 1. Big Data Analytics 2. Soft Computing 3. Software Process and Project Management 4. Distributed Computing	25	75	4	--	4
Open Elective II	**Open Elective – 2**	25	75	4	--	4
Laboratory II	Internet Technologies and Services Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits			**24**	**8**	**28**	

II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	**16**

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	**24**	**16**

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College Code: 08

2015-16 R15

Open Electives

1. Basic Computer Programming skills are required for all open electives. Additionally, knowledge on the specified area mentioned in prerequisites is required for opting the open elective
2. Note: A student can register for any open elective subject provided that he has not already registered for the same subject

S.NO	Open Electives	Prerequisites
1.	"R" Programming	Maths, Statistics
2.	Android Application Development	Java
3.	Algorithmics	----
4.	Big Data Analytics	Data Bases , Maths
5.	Bioinformatics	Data Structures
6.	Biometrics	----
7.	Cyber Security	Internet Technologies
8.	Computer Forensics	Maths, Data Structures
9.	Distributed Systems Security	Information Security
10.	E-Commerce	Internet Technologies
11.	Embedded Systems	Digital logic
12.	Information Security	Maths
13.	Intellectual Property Rights	---
14.	Internet of Things	Java
15.	Java Programming	---
16.	Linux Programming	---
17.	Mobile Computing	Java
18.	Mobile Application Security	Mobile Application Development
19.	OpenStack cloud computing	Linux Programming
20.	Operations Research	Maths, Data Structures
21.	Principles of Information Security	-----
22.	Scripting Languages	---
23.	Social Media Intelligence	---
24.	Software Engineering	---
25.	Storage Area Networks	Computer Networks
26.	Web Usability	------

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech. (COMPUTER NETWORKS)
COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Data Structures and Algorithms	**25**	**75**	**4**	--	**4**
Core Course II	Computer Networking	25	75	4	--	4
Core Course III	Network Programming	25	75	4	--	4
Core Elective I	1. Database Internals 2. Software Defined Networks 3. TCP/IP Protocol Suite 4. Cloud Computing	25	75	4	--	4
Core Elective II	1. Internet of Things 2. Embedded Systems 3. Distributed Systems 4. Distributed Computing	25	75	4	--	4
Open Elective I	**Open Elective – 1**	25	75	4	--	4
Laboratory I	Network Programming Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
	Total Credits			**24**	**8**	**28**

I Year – II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Network Security	**25**	**75**	**4**	--	**4**
Core Course V	Wireless Networks	**25**	**75**	**4**	--	**4**
Core Course VI	Network Security Standards and Applications	**25**	**75**	**4**	--	**4**
Core Elective III	1. Internet Technologies and Services 2. Digital Water Marking and Steganography 3. Security Threats 4. Network Management and Performance Evaluation	**25**	**75**	**4**	--	**4**
Core Elective IV	1. Storage Area Networks 2. Distributed Systems Security 3. Cyber Security 4. Information Systems control and Audit	**25**	**75**	**4**	--	**4**
Open Elective II	**Open Elective – 2**	**25**	**75**	**4**	--	**4**
Laboratory II	Network Security Lab	**25**	**75**	--	**4**	**2**
Seminar II	Seminar	**50**	--	--	**4**	**2**
Total Credits			**24**	**8**	**28**	

II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	**16**

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	**24**	**16**

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College Code: 03

2015-16 R15

Open Electives

1. Basic Computer Programming skills are required for all open electives. Additionally, knowledge on the specified area mentioned in prerequisites is required for opting the open elective
2. Note: A student can register for any open elective subject provided that he has not already registered for the same subject

S.NO	Open Elective subject	Prerequisites
1.	"R" Programming	Maths, Statistics
2.	Android Application Development	Java
3.	Algorithmics	-------
4.	Big Data Analytics	Data Bases , Maths
5.	Bioinformatics	Data Structures
6.	Biometrics	----
7.	Computer Forensics	Maths, Data Structures
8.	Cyber Security	Internet Technologies
9.	Database Internals	---
10.	Distributed Systems Security	Information Security
11.	E-Commerce	Internet Technologies
12.	Embedded Systems	Digital logic
13.	Information Security and Audit	------
14.	Intellectual Property Rights	---
15.	Internet of Things	Java
16.	Internet Technologies and Services	Java
17.	Java Programming	---
18.	Linux Programming	---
19.	Mobile Computing	Java
20.	Mobile Application Security	Mobile Application Development
21.	OpenStack Cloud Computing	Linux Programming
22.	Operations Research	Maths, Data Structures
23.	Principles of Information Security	------
24.	Scripting Languages	---
25.	Social Media Intelligence	---
26.	Software Engineering	---
27.	Storage Area Networks	Computer Networks
28.	Web Usability	------

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - COMPUTER SCIENCE

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

Code	Group	Subject	L	P	Credits
		Advanced Data Structures and Algorithms	3	-	3
		Computer System Design	3	-	3
		Advanced Operating Systems	3	-	3
		Software Process and Project Management	3	-	3
	Elective -I	Distributed Systems 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

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

II Year - I Semester

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

II Year - II Semester

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - COMPUTER SCIENCE ENGINEERING

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

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

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

II Year - I Semester

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

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - COMPUTER NETWORKS

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

Code	Group	Subject	L	P	Credits
		Advanced Computer Networks	3	-	3
		Network Programming	3	-	3
		Distributed Computing	3	-	3
		Network Security	3	-	3
	Elective -I	Java & Web Technologies High Speed Networks TCP/IP Protocol Suite	3	-	3
	Elective -II	Embedded Systems Data Warehousing and Mining Distributed Databases	3	-	3
	Lab	Network Programming Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I Year II Semester

Code	Group	Subject	L	P	Credits
		Wireless Networks	3	-	3
		Mobile Computing	3	-	3
		Distributed Systems	3	-	3
		Ad hoc and Sensor Networks	3	-	3
	Elective -III	Storage Area Networks Information Retrieval Systems Digital Image Processing	3	-	3
	Elective -IV	Web Services Network Management & Performance Evaluation E-Commerce	3	-	3
	Lab	Web Programming Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II Year - I Semester

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

II Year - II Semester

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. INFORMATION TECHNOLOGY / COMPUTER SCIENCE TECHNOLOGY

I YEAR

Code	Subject	L	T/P/D	C
	English	2	-	4
	Mathematics – I	3	1	6
	Mathematical Methods	3	-	6
	Engineering Physics	3	-	6
	Engineering Chemistry	3	-	6
	Computer Programming	3	-	6
	Engineering Drawing	2	3	6
	Computer Programming Lab.	-	3	4
	Engineering Physics / Engineering Chemistry Lab.	-	3	4
	English Language Communication Skills Lab.	-	3	4
	IT Workshop / Engineering Workshop	-	3	4
	Total	19	19	56

II YEAR I SEMESTER

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

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II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Principles of Programming Languages	4	-	4
	Database Management Systems	4	-	4
	Java Programming	4	-	4
	Environmental studies	4	-	4
	Data Communication	4	-	4
	Design and Analysis of Algorithms	4	-	4
	Java Programming Lab	-	3	2
	Database Management Systems Lab	-	3	2
	Total	**24**	**6**	**28**

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Automata and Compiler Design	4	-	4
	Linux Programming	4	-	4
	Software Engineering	4	-	4
	Operating Systems	4	-	4
	Computer Networks	4	-	4
	Managerial Economics and Financial Analysis	4	-	4
	Operating Systems Lab	-	3	2
	Computer Networks Lab (Through Linux)	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Web Technologies	4	-	4
	OPEN ELECTIVE Human Values and Professional Ethics Intellectual Property Rights Disaster Management	4	-	4
	Object Oriented Analysis and Design	4	-	4
	Data Warehousing and Data Mining	4	-	4
	Software Testing Methodologies	4	-	4
	Cloud Computing	4	-	4
	Data Mining and Web Technologies Lab	-	3	2
	Advanced Communication Skills Lab	-	3	2
	Total	**24**	**6**	**28**

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IV YEAR I SEMESTER **COURSE STRUCTURE**

Code	Subject	T	T/P/D	C
57047	Software Testing Methodologies	3	1	3
57079	Object Oriented Analysis and Design	4	-	4
57080	Mobile Application Development	3	1	3
57035	VLSI Design	4	1	4
	ELECTIVE - I	3	1	3
57081	Wireless Networks and Mobile Computing			
57073	Image Processing and Pattern Recognition			
57056	Soft Computing			
57082	Semantic Web and Social Networks			
	ELECTIVE - II	4	1	4
57057	Information Retrieval Systems			
57083	Human Computer Interaction			
57084	Multimedia and Rich Internet Applications			
57085	Scripting Languages			
57617	Case Tools and Software Testing Lab	-	3	2
57618	Mobile Applications Development Lab	-	3	2
	Total	**21**	**11**	**25**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech. (COMPUTER NETWORKS AND INFORMATION SECURITY)

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Data Structures and Algorithms	**25**	**75**	**4**	--	**4**
Core Course II	Computer Networking	25	75	4	--	4
Core Course III	Network Programming	25	75	4	--	4
Core Elective I	1. Database Internals 2. Software Defined Networks 3. TCP/IP Protocol Suite 4. Cloud Computing	25	75	4	--	4
Core Elective II	1. Internet of Things 2. Embedded Systems 3. Distributed Systems 4. Distributed Computing	25	75	4	--	4
Open Elective I	**Open Elective – 1**	25	75	4	--	4
Laboratory I	Network Programming Lab	25	75	--	4	2
Seminar I	Semina	50	--	--	4	2
	Total Credits			**24**	**8**	**28**

I Year – II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Network Security	**25**	**75**	**4**	--	**4**
Core Course V	Wireless Networks	**25**	**75**	**4**	--	**4**
Core Course VI	Network Security Standards and Applications	**25**	**75**	**4**	--	**4**
Core Elective III	1. Internet Technologies and Services 2. Digital Water Marking and Steganography 3. Security Threats 4. Network Management and Performance Evaluation	**25**	**75**	**4**	--	**4**
Core Elective IV	1. Storage Area Networks 2. Distributed Systems Security 3. Cyber Security 4. Information Systems control and Audit	**25**	**75**	**4**	--	**4**
Open Elective II	**Open Elective – 2**	**25**	**75**	**4**	--	**4**
Laboratory II	Network Security Lab	**25**	**75**	--	**4**	**2**
Seminar II	Semina	**50**	--	--	**4**	**2**
Total Credits			**24**	8	**28**	

II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	**16**

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	**24**	**16**

Shadan College of Engineering & Technology College Code 08

PRINCIPAL
Shadan College of Engineering & Technology
Peeran Cheru, Hyderabad 86, T.S.
College Code: 08

2015-16, R15

Open Electives

1. Basic Computer Programming skills are required for all open electives. Additionally, knowledge on the specified area mentioned in prerequisites is required for opting the open elective
2. Note: A student can register for any open elective subject provided that he has not already registered for the same subject

S.NO	Open Elective subject	Prerequisites
1.	"R" Programming	Maths, Statistics
2.	Android Application Development	Java
3.	Algorithmics	-------
4.	Big Data Analytics	Data Bases , Maths
5.	Bioinformatics	Data Structures
6.	Biometrics	----
7.	Computer Forensics	Maths, Data Structures
8.	Cyber Security	Internet Technologies
9.	Database Internals	---
10.	Distributed Systems Security	Information Security
11.	E-Commerce	Internet Technologies
12.	Embedded Systems	Digital logic
13.	Information Security and Audit	------
14.	Intellectual Property Rights	---
15.	Internet of Things	Java
16.	Internet Technologies and Services	Java
17.	Java Programming	---
18.	Linux Programming	---
19.	Mobile Computing	Java
20.	Mobile Application Security	Mobile Application Development
21.	OpenStack Cloud Computing	Linux Programming
22.	Operations Research	Maths, Data Structures
23.	Principles of Information Security	------
24.	Scripting Languages	---
25.	Social Media Intelligence	---
26.	Software Engineering	---
27.	Storage Area Networks	Computer Networks
28.	Web Usability	------

Sharfan College of Engineering & Technology Peeran Cheru Code 08

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College Code: 08

2015-16 R13
CNIS 2nd Year

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - COMPUTER NETWORKS

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

Code	Group	Subject	L	P	Credits
		Advanced Computer Networks	3	-	3
		Network Programming	3	-	3
		Distributed Computing	3	-	3
		Network Security	3	-	3
	Elective -I	Java & Web Technologies High Speed Networks TCP/IP Protocol Suite	3	-	3
	Elective -II	Embedded Systems Data Warehousing and Mining Distributed Databases	3	-	3
	Lab	Network Programming Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I Year II Semester

Code	Group	Subject	L	P	Credits
		Wireless Networks	3	-	3
		Mobile Computing	3	-	3
		Distributed Systems	3	-	3
		Ad hoc and Sensor Networks	3	-	3
	Elective -III	Storage Area Networks Information Retrieval Systems Digital Image Processing	3	-	3
	Elective -IV	Web Services Network Management & Performance Evaluation E-Commerce	3	-	3
	Lab	Web Programming Lab	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II Year - I Semester

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

II Year - II Semester

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

Shadan College of Engineering & Technology
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH. (EMBEDDED SYSTEMS)

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Embedded System Design	25	75	4	--	4
Core Course II	ARM Architectures	25	75	4	--	4
Core Course III	Real Time Operating Systems	25	75	4	--	4
Core Elective I	Advanced Computer Architecture VLSI Technology and Design Embedded Computing	25	75	4	--	4
Core Elective II	Digital System Design Embedded C Design for Testability	25	75	4	--	4
Open Elective I	TCP/IP Networks Coding Theory and Techniques Soft Computing Techniques	25	75	4	--	4
Laboratory I	Embedded Systems Laboratory	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				**24**	**8**	**28**

I Year – IISemester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Digital Signal Processors and Architectures	25	75	4	--	4
Core Course V	Embedded Networking	25	75	4	--	4
Core Course VI	Sensors and Actuators	25	75	4	--	4
Core Elective III	CPLD and FPGA Architectures and Applications Wireless Communication and Networks System On Chip Architecture	25	75	4	--	4
Core Elective IV	Multimedia and Signal Coding Network Security and Cryptography Hardware Software Co-Design	25	75	4	--	4
Open Elective II	Scripting languages Adhoc Wireless and Sensor Networks Device Modeling	25	75	4	--	4
Laboratory II	Advanced Embedded SystemsLaboratory	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				**24**	**8**	**28**

II Year - ISemester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	**16**

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	**24**	**16**

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Shadan College of Engineering & Technology
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - EMBEDDED SYSTEMS

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

Code	Group	Subject	L	P	Credits
		Embedded System Design	3	-	3
		Microcontrollers for Embedded System Design	3	-	3
		Embedded Real Time Operating Systems	3	-	3
		Embedded C	3	-	3
	Elective -I	Advanced Computer Architecture VLSI Technology and Design Embedded Computing	3	-	3
	Elective -II	Digital System Design Soft Computing Techniques Advanced Operating Systems	3	-	3
	Lab	Embedded C Laboratory	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I Year II Semester

Code	Group	Subject	L	P	Credits
		Hardware Software Co-Design	3	-	3
		Digital Signal Processors and Architectures	3	-	3
		Embedded Networking	3	-	3
		CPLD and FPGA Architectures and Applications	3	-	3
	Elective - III	Sensors and Actuators Wireless Communications and Networks Network Security and Cryptography	3	-	3
	Elective – IV	Multimedia and Signal Coding System On Chip Architecture Wireless LANs and PANs	3	-	3
	Lab	Embedded Systems Laboratory	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II Year - I Semester

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

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech. (VLSI/ VLSI DESIGN/VLSI SYSTEM DESIGN)

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	VLSI Technology	25	75	4	--	4
Core Course II	CMOS Analog Integrated Circuit Design	25	75	4	--	4
Core Course III	CMOS Digital Integrated Circuit Design	25	75	4	--	4
Core Elective I	Digital System Design Hardware Software Co-Design CPLD and FPGA Architectures and Applications	25	75	4	--	4
Core Elective II	Algorithms for VLSI Design Automation Embedded System Design Device Modeling	25	75	4	--	4
Open Elective I	Soft Computing Techniques Image and Video processing Software Defined Radio	25	75	4	--	4
Laboratory I	VLSI Laboratory – I	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				**24**	**8**	**28**

I Year – IISemester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Low Power VLSI Design	25	75	4	--	4
Core Course V	Design for Testability	25	75	4	--	4
Core Course VI	CMOS Mixed Signal Circuit Design	25	75	4	--	4
Core Elective III	VLSI and DSP Architectures Full custom IC Design Hardware DescriptionLanguage	25	75	4	--	4
Core Elective IV	Optimization Techniques in VLSI Design System On Chip Architecture Semiconductor Memory Design and Testing	25	75	4	--	4
Open Elective II	Scripting Languages Coding Theory and Techniques Adhoc Wireless Networks	25	75	4	--	4
Laboratory II	VLSI Laboratory – II	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				**24**	**8**	**28**

II Year - ISemester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	**16**

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	**24**	**16**

Shadan College of Engineering & Technology
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2015-16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - VLSI/ VLSI DESIGN/VLSI SYSTEM DESIGN

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

Code	Group	Subject	L	P	Credits
		VLSI Technology and Design	3	-	3
		CMOS Analog Integrated Circuit Design	3	-	3
		CPLD and FPGA Architectures and Applications	3	-	3
		CMOS Digital Integrated Circuit Design	3	-	3
	Elective -I	Digital System Design Hardware Software Co-Design Device Modeling	3	-	3
	Elective -II	Advanced Operating Systems Micro Controllers for Embedded System Design Advanced Computer Architecture	3	-	3
	Lab	VLSI Laboratory – I	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I Year II Semester

Code	Group	Subject	L	P	Credits
		Low Power VLSI Design	3	-	3
		CAD for VLSI Circuits	3	-	3
		CMOS Mixed Signal Circuit Design	3	-	3
		Design for Testability	3	-	3
	Elective - III	Scripting Languages Digital Signal Processors and Architectures VLSI Signal Processing	3	-	3
	Elective – IV	Optimization Techniques in VLSI Design System On Chip Architecture Semiconductor Memory Design and Testing	3	-	3
	Lab	VLSI Laboratory – II	-	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II Year - I Semester

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

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MASTER OF BUSINESS ADMINISTRATION (MBA) R15

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

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

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**

II Year – I Semester

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/SYS)	25	75	3	-	3
Core Elective II	(MRKG/HRM/FIN/SYS)	25	75	3	-	3
Core Elective III	(MRKG/HRM/FIN/SYS)	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**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Andhra Pradesh Act No.30 of 2006)

Kukatpally, Hyderabad - 500 085, Andhra Pradesh (India)

MASTER OF BUSINESS ADMINISTRATION (MBA)

R13 COURSE STRUCTURE AND SYLLABUS

I SEMESTER

Code	Subjects	Approach	Credits	Marks
13MBA01	Management Fundamentals	Concepts and Cases	3	100
13MBA02	Business Laws & Regulations	Concepts and Cases	3	100
13MBA03	Financial Accounting & Analysis	Concepts & Problem Solving	3	100
13MBA04	Managerial Economics	Concepts and Cases	3	100
13MBA05	Business Environment	Concepts and Cases	3	100
13MBA06	Research Methodology & Statistical Analysis	Concepts & Problem Solving	3	100
13MBA07	Statistical Data Analysis - **Practical**	MS Excel(LAB)	2	100
13MBA08	Business Communication- **Practical**	LAB Practice	2	100

II SEMESTER

13MBA09	Human Resource Management	Concepts and Cases	3	100
13MBA10	Quantitative Analysis & Decision Making	Concepts & Problem Solving	3	100
13MBA11	Financial Management	Concepts Cases & Problem Solving	3	100
13MBA12	Management Information system	Concepts and Cases	3	100
13MBA13	Marketing Management	Concepts and Cases	3	100
13MBA14	Business Ethics & Corporate Governance	Concepts and Cases	3	100
13MBA15	Personal Effectiveness - **Seminar**	Presentations, Group Discussions, Mock interviews in the class.	2	50
13MBA16	Annual Report Analysis - **Seminar**	Using CMIE Prowess Database/Annual reports of companies & MS-Excel	2	50

III SEMESTER

13 NBA 17	Summer Internship- **Seminar**	Working in any organization during summer vacation	2	50
13MBA18	Production & Operation Management	Concepts, Cases & Problem Solving	3	100
13MBA19	Strategic Management	Concepts and Cases	3	100
13MBA20	Organizational Behaviour	Concepts and Cases	3	100
13MBA21	Business Best Practices - **Seminar**	Internet & Interaction with Executives	2	50
	Elective 1	Concepts and Cases	3	100
	Elective 2	Concepts and Cases	3	100
	Elective 3	Concepts and Cases	3	100

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IV SEMESTER

13MBA22	Entrepreneurship	Concepts and Cases	3	100
	Elective 4	Concepts and Cases	3	100
	Elective 5	Concepts and Cases	3	100
	Elective 6	Concepts and Cases	3	100
13MBA23	Success Story of an Entrepreneur- **Seminar**	Field Visit	2	50
Main Project Work				
13MBA24	**Stage-I:** Research Methodology for the Main Project Work & Collection of Main Project Related Data from CMIE Prowess DATABASE or any source, or Data collected from the field- **Seminar**		2	50
13MBA25	**Stage-II** : Statistical Analysis of Main project data using either Excel, SPSS, MINI TAB, or R- **Seminar Presentation**		2	50
13MBA26	**Stage-III: MAIN PROJECT REPORT & VIVA**		4	GRADE
TOTAL CREDITS = 66 CREDITS FOR 22 THEORY SUBJECTS + 22 CREDITS FOR 2 PRACTICALS, 7 SEMINARS AND MAIN PROJECT.			88	2750

CHOOSE ANY ONE OF THE MARKETING OR FINANCE OR HR OR SYSTEMS ELECTIVES

MARKETING ELECTIVES				
13MBA27	Consumer Behaviour	Concepts and Cases	3	100
13MBA28	Sales and Distribution	Concepts and Cases	3	100
13MBA29	Integrated Marketing Communications	Concepts and Cases	3	100
13MBA30	Retailing Management	Concepts and Cases	3	100
13MBA31	Services Marketing	Concepts and Cases	3	100
13MBA32	International Marketing	Concepts and Cases	3	100
FINANCE ELECTIVES				
13MBA33	Cost & Management Accounting	Concepts & Problem Solving	3	100
13MBA34	Security Analysis and Portfolio Management	Concepts & Problem Solving	3	100
13MBA35	Financial Institutions, Markets & Services	Concepts & Problem Solving	3	100
13MBA36	Strategic Investment and Financing Decisions	Concepts & Problem Solving	3	100
13MBA37	International Financial Management	Concepts & Problem Solving	3	100
13MBA38	Derivatives	Concepts & Problem Solving	3	100
HR ELECTIVES				
13MBA39	Performance Management	Concepts and Cases	3	100
13MBA40	Training and Development	Concepts and Cases	3	100
13MBA41	Management of Industrial Relations	Concepts and Cases	3	100
13MBA42	Compensation & Reward Management	Concepts and Cases	3	100
13MBA43	Management of Change	Concepts and Cases	3	100
13MBA44	Leadership	Concepts and Cases	3	100
SYSTEMS ELECTIVES				
13MBA45	Business Intelligence	Concepts and Cases	3	100
13MBA46	Enterprise Resource Planning	Concepts and Cases	3	100
13MBA47	Decision Support Systems	Concepts and Cases	3	100
13MBA48	E-Business	Concepts and Cases	3	100
13MBA49	Cyber Security	Concepts and Cases	3	100
13MBA50	Information Systems, Control and Audit	Concepts and Cases	3	100

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by an Act No.30 of 2008 of A.P. State Legislature)

Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

M.Tech. (CAD/CAM)
(R15) COURSE STRUCTURE AND SYLLABUS

I YEAR I SEMESTER

Code	Group	Subject	L	P	Credits
		Advanced CAD	3	0	3
		Advanced Finite Element Analysis	3	0	3
		Precision Engineering	3	0	3
		Design for Manufacturing and Assembly	3	0	3
	Elective -I	Numerical Methods for Partial Differential Equations Advanced Mechanics of Solids Advanced Mechatronics	3	0	3
	Elective -II	Advanced Mechanics of Composite Materials Total Quality Management Stress Analysis and Vibrations	3	0	3
	Lab	Computer Aided Design Lab	0	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I YEAR II SEMESTER

Code	Group	Subject	L	P	Credits
		Design of Hydraulics and Pneumatics Systems	3	0	3
		Flexible Manufacturing Systems	3	0	3
		Computer Aided Manufacturing	3	0	3
		Industrial Robotics	3	0	3
	Elective –III	Production and Operations Management Computational Fluid Dynamics Automation in Manufacturing	3	0	3
	Elective -IV	Design Optimization Intelligent Manufacturing Systems Computer Aided Process Planning	3	0	3
	Lab	Computer Aided Machining and Robotics Lab	0	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II YEAR - I Semester

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

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

Sharadan College of Engineering & Technology
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(Established by an Act No.30 of 2008 of A.P. State Legislature)

Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

M.Tech. (CAD/CAM)
(R13) COURSE STRUCTURE AND SYLLABUS

I YEAR I SEMESTER

Code	Group	Subject	L	P	Credits
		Advanced CAD	3	0	3
		Advanced Finite Element Analysis	3	0	3
		Precision Engineering	3	0	3
		Design for Manufacturing and Assembly	3	0	3
	Elective -I	Numerical Methods for Partial Differential Equations Advanced Mechanics of Solids Advanced Mechatronics	3	0	3
	Elective -II	Advanced Mechanics of Composite Materials Total Quality Management Stress Analysis and Vibrations	3	0	3
	Lab	Computer Aided Design Lab	0	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

I YEAR II SEMESTER

Code	Group	Subject	L	P	Credits
		Design of Hydraulics and Pneumatics Systems	3	0	3
		Flexible Manufacturing Systems	3	0	3
		Computer Aided Manufacturing	3	0	3
		Industrial Robotics	3	0	3
	Elective –III	Production and Operations Management Computational Fluid Dynamics Automation in Manufacturing	3	0	3
	Elective -IV	Design Optimization Intelligent Manufacturing Systems Computer Aided Process Planning	3	0	3
	Lab	Computer Aided Machining and Robotics Lab	0	3	2
		Seminar	-	-	2
		Total Credits	18	3	22

II YEAR - I Semester

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

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.

B. TECH. MECHANICAL ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10302	Engineering Mechanics	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics & Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	**19**	**16**	**56**

II YEAR I SEMESTER

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**

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II YEAR II SEMESTER

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**

III YEAR I SEMESTER

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

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
A60117 A60017 A60018	**Open Elective** Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
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 COURSESTRUCTURE

Code	Subject	L	T/P/D	C
57022	Operations Research	4	1	4
57023	Power Plant Engineering	3	1	3
57024	CAD/CAM	4	1	4
57025	Instrumentation and Control Systems	4	-	4
	ELECTIVE – I	3	1	3
57026	Robotics			
57027	Mechanical Vibrations			
57028	Mechatronics			
57029	Composite Materials			
	ELECTIVE – II	3	1	3
57030	Unconventional Machining Processes			
57031	CNC Technology			
57032	Automation in Manufacturing			
57033	Design for Manufacturing			
57605	Computer Aided Design & Manufacturing Lab	0	3	2
57606	Production Drawing Practice and Instrumentation Lab	0	3	2
	Total	21	11	25

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