

DEPARTMENT OF CIVIL ENGINEERING

III B.TECH I SEMESTER

S.NO	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
1	R20CE3101	Design and Drawing of Concrete Structures	PC	30	70	100	3	0	0	3
2	R20CE3102	Soil Mechanics	PC	30	70	100	3	0	0	3
3	R20CE3103	Highway Engineering	PC	30	70	100	3	0	0	3
Open Elective Course/Job Oriented Elective - I										
4	R20CC10E01	Disaster Management	OE/JO E	30	70	100	3	0	0	3
	R20CC10E02	Green Technology								
Professional Elective Course-1										
5	R20CE3104	Advanced Structural Analysis	PE	30	70	100	3	0	0	3
	R20CE3106	Environmental Impact Assessment								
	R20CE3107	Solid Waste and Hazardous Management								
6	R20CE31L1	Soil Mechanics Lab	PC LAB	15	35	50		0	3	1.5
7	R20CE31L2	Highway Engineering Lab	PC LAB	15	35	50		0	3	1.5
8	R20CE31SC3	STAAD.Pro	SAC/S SC		50	50	1	0	2	2
9	R20CC31MC01	Professional Ethics & Human Values	MC				2	0	0	0
10	R20CC31IN	Summer INTERNSHIP/ Community Service Project	PROJ	15	35	50	0	0	0	1.5
Total Credits										21.5
HONORS/MINOR COURSE										
11		Honors/Minor	PC	30	70	100	4	0	0	4



DEPARTMENT OF CIVIL ENGINEERING

III B.TECH II SEMESTER

S.N O	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
1	R20CE3201	Design and Drawing Of Steel Structures	PC	30	70	100	3	0	0	3
2	R20CE3202	Environmental Engineering	PC	30	70	100	3	0	0	3
3	R20CE3203	Hydrology & Irrigation Engineering	PC	30	70	100	3	0	0	3
Open Elective Course/Job Oriented Elective – II										
4	R20CC20E01	Remote Sensing And GIS	OE/JOE	30	70	100	2	0	2	3
	R20CC20E02	Traffic Safety								
Professional Elective Course-II										
5	R20CE3204	Foundation Engineering	PE	30	70	100	3	0	0	3
	R20CE3205	Bridge Engineering								
	R20CE3206	Urban Transportation Planning								
6	R20CE32L1	Environmental Engineering Lab	PC LAB	15	35	50		0	3	1.5
7	R20CE32L2	GIS Lab	PC LAB	15	35	50		0	3	1.5
8	R20CE32L3	Civil Engineering Drawing	PC LAB	15	35	50		0	3	1.5
9	R20CC32SC1	English for Employability Skills	SAC/SS C		50	50	1	0	2	2
10	R20CC32M C1	Essence of Indian Traditional Knowledge	MC				2	0	0	0
Total Credits										21.5
HONORS/MINOR COURSE										
11		Honors/Minor								4



Principal

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist) - A.P.



DEPARTMENT OF CIVIL ENGINEERING

IV B.TECH I SEMESTER

S.NO	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
Professional Elective Course-III										
1	R20CE4101	Advanced Foundation Engineering	PE	30	70	100	3	0	0	3
	R20CE4102	Watershed Management								
	R20CE4103	Irrigation Structures								
Professional Elective Courses - IV										
2	R20CE4104	Prestressed Concrete	PE	30	70	100	3	0	0	3
	R20CE4105	Repair & Rehabilitation Of Structures								
	R20CE4106	Ground Water Development and Management								
Professional Elective Courses - V										
3	R20CE4107	Estimation Costing and Valuation	PE	30	70	100	3	0	0	3
	R20CE4108	Ground Improvement Techniques								
	R20CE4109	Pavement Materials								
Open Elective Course/Job Oriented Elective - III										
4	R20CC3OE01	Railway, Airport & Harbour Engineering	OE/JOE	30	70	100	2	0	2	3
	R20CC3OE02	Low Cost Housing								
Open Elective Course/Job Oriented Elective - IV										
5	R20CC4OE01	Environmental Pollution & Control	OE/JOE	30	70	100	2	0	2	3
	R20CC4OE02	Construction Technology and Management								
6	R20CC4101	Business Management Concepts for Engineering	H&SSE	30	70	100	3	0	0	3
	R20CC4117	Entrepreneurship & Innovations								
7	R20CE41SC1	Quantity Estimation & Project Management lab	SAC/SSC		50	50	1	0	2	2
8	R20CC41IN	INTERNSHIP/ Community Service Project	PROJ	15	35	50				1.5
9	R20CC41MC	MOOCS								1.5
Total Credits										23
HONORS/MINOR COURSE										
10		Honors/Minor	PC	30	70	100	4	0	0	4



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF CIVIL ENGINEERING

IV B.TECH II SEMESTER										
S.NO	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
1	R20CC42PW	Major project& Internship	PROJ	60	140	200	0	0	0	12
INTERNSHIP (6 MONTHS)										
TOTAL CREDITS										12
HONORS/MINOR COURSE										
2		HONORS/MINOR	PC	30	70	100	4	0	0	4

**LIST OF HONORS
POOL 1 (structures stream)**

S.NO	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
1	R20CEHN02	Finite element methods	PC	30	70	100	4	0	0	4
2	R20CEHN03	Advanced Structural Engineering	PC	30	70	100	4	0	0	4
3	R20CEHN04	Theory of Elasticity And Plasticity	PC	30	70	100	4	0	0	4
4	R20CEHN05	Matrix Methods of Structural Analysis	PC	30	70	100	4	0	0	4

POOL 2(Environmental stream)

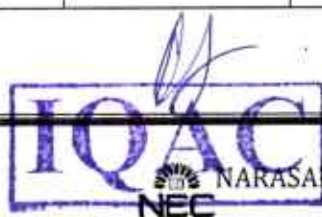
S.NO	CODE	SUBJECT	CAT. CODE	INTERNAL	EXTERNAL	TOTAL MARKS	L	T	P	CREDITS
1	R20CEHN01	Air pollution and control	PC	30	70	100	4	0	0	4
2	R20CEHN06	Advanced Environmental Engineering	PC	30	70	100	4	0	0	4
3	R20CEHN07	Solid waste management	PC	30	70	100	4	0	0	4
4	R20CEHN08	Rural water supply and sanitation	PC	30	70	100	4	0	0	4



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

III B. Tech. - I SEMESTER

S. No.	Subject Code	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	R20EE3101	Problem Solving with Python	PC	3	0	0	30	70	100	3
2	R20EE3102	Power Electronics	PC	3	0	0	30	70	100	3
3	R20EE3103	Power Generation and Transmission	PC	3	0	0	30	70	100	3
4	R20CC1OE03	Open Elective-I a. Micro Electro Mechanical System	OE	3	0	0	30	70	100	3
	R20CC1OE04	b. Fundamentals of Electrical Engineering								
5	R20EE3106	Professional Elective-I a. Digital Control System	PE	3	0	0	30	70	100	3
	R20EE3107	b. Signals and Systems								
	R20EE3108	c. Special Electrical Machines								
	R20EE3109	d. Energy Conservation and Auditing								
6	R20EE31L1	Problem Solving with Python Programming Lab	PC	0	0	3	15	35	50	1.5



PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPETA - 522 601

Guntur (Dist.), A.P.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

7	R20EE31L2	Power Electronics Lab	PC	0	0	3	15	35	50	1.5
8	R20EE31SC3	Internet of Things	SC	1	0	2	-	50	50	2
9	R20CC31MC01	Professional Ethics and Human Values (MC)	MC	2	0	0	-	-	-	-
10	R20CC31IN	Summer Internship / Community Service Project	PROJ	0	0	0	0	50	50	1.5
Total				18	-	8	180	520	700	21.5
				Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)						4



Handwritten signature in green ink.

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

III B. Tech. - II SEMESTER

S. No.	Subject Code	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	R20EE3201	Microprocessor & Microcontrollers	PC	3	0	0	30	70	100	3
2	R20EE3202	Power System Analysis	PC	3	0	0	30	70	100	3
3	R20EE3203	Measurements & Instrumentation	PC	3	0	0	30	70	100	3
4	R20EE3204	Professional Elective-II a. Renewable and Distributed Energy System	PE	3	0	0	30	70	100	3
	R20EE3205	b. Electric Drives								
	R20EE3206	c. Utilization of Electrical Energy								
	R20EE3207	d. Big Data Analytics								
5	R20CC2OE03	Open Elective-II a. Hybrid Electric Vehicle	OE	3	0	0	30	70	100	3
	R20CC2OE04	b. Energy Audit and Conservation								
6	R20EE32L1	Microprocessors and Microcontrollers Lab	PC	0	0	3	15	35	50	1.5
7	R20EE32L2	Measurements and Instrumentation Lab	PC	0	0	3	15	35	50	1.5
8	R20EE32L3	Power System Simulation Lab	PC	0	0	3	15	35	50	1.5

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

9	R20CC32SC1	English Employability Skills	SC	1	0	2	-	50	50	2
10	R20CC32MC1	Essence of Indian Traditional Knowledge (MC)	MC	2	0	0	-	-	-	-
Total				18	-	11	195	505	700	21.5
Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)										4






PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET - 522 601
 Guntur (Dist.), A.P.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

IV B. Tech. - I SEMESTER

S. No.	Subject Code	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	R20EE4102	Professional Elective-III a. High Voltage Engineering	PE	3	0	0	30	70	100	3
	R20EE4103	b. Power System Stability								
	R20EE4104	c. Flexible AC Transmission Systems								
	R20EE4105	d. Smart Grid Technology								
2	R20EE4106	Professional Elective-IV a. Power Quality	PE	3	0	0	30	70	100	3
	R20EE4107	b. Electrical and Hybrid Vehicles								
	R20EE4108	c. Introduction to Embedded Systems								
	R20EE4109	d. Power System Operation and Control								
3	R20EE4110	Professional Elective-V a. HVDC Transmission	PE	3	0	0	30	70	100	3
	R20EE4111	b. Switchgear and Protection								
	R20EE4112	c. Electrical Machine Design								
	R20EE4113	d. AI Techniques to power System								
4	R20CC3OE03	Open Elective-III a. Concept of Smart Grid Technology	OE	3	0	0	30	70	100	3
	R20CC3OE04	b. Industrial Automation								

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5	R20CC4OE03	Open Elective-IV a. Non-Conventional Energy Resources	OE	3	0	0	30	70	100	3
	R20CC4OE04	b. Electrical Safety								
6	R20CC4101	Humanities and Social Science Elective a. Business Management Concepts for Engineers	HSE	3	0	0	30	70	100	3
	R20CC4117	b. Entrepreneurship & Innovation								
7	R20EE41SC1	Machine Learning with Python	SC	1	0	2	-	50	50	2
8	R20CC41IN	Internship / Community Service Project	PROJ	0	0	0	0	50	50	1.5
9	R20CC41MC	MOOCs Course	PC	-	-	-	-	-	-	1.5
Total				19	-	2	180	520	700	23
Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)										4

IV B. Tech. - II SEMESTER

S. No.	Subject Code	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	R20CC42PW	Major Project and Internship	PROJ	0	0	0	-	-	-	12
		Total		-	-	-	-	-	-	12



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

III B.TECH – I SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Artificial Intelligence and Machine Learning	R20ME3101	PC	30	70	100	3	0	0	3
2	Heat Power Engineering	R20ME3102	PC	30	70	100	2	1	0	3
3	Design of Machine Elements-I	R20ME3103	PC	30	70	100	2	1	0	3
4	Open Elective Course/Job Oriented Elective -I		OE	30	70	100	3	0	0	3
	RPT &3D Printing (Other than ME)	R20CC1OE06								
	Operations Research	R20CC1OE07								
5	Professional Elective Course -I		PC	30	70	100	3	0	0	3
	Automobile Engineering	R20ME3105								
	Refrigeration & Air Conditioning	R20ME3106								
	Metal Cutting & Machine Tools	R20ME3107								
	Work Study	R20ME3108								
6	Artificial Intelligence and Machine Learning Lab	R20ME31L1	PC	15	35	50	0	0	3	1.5
7	Heat power Engineering Lab	R20ME31L2	PC	15	35	50	0	0	3	1.5
8	Robotics & 3D Printing Lab	R20ME31SC3	SC	-	50	50	0	0	4	2
9	PE&HV	R20CC31MC01	MC				2	0	0	0
10	Internship/ Community Service Project	R20CC31IN	SI	-	50	50	0	0	3	1.5
Total										21.5
11	Honors / Minors Course	-	HC	30	70	100	4	0	0	4



[Handwritten Signature]

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

III B.TECH – II SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Design of Machine Elements-II	R20ME3201	PC	30	70	100	2	1	0	3
2	Heat Transfer	R20ME3202	PC	30	70	100	2	1	0	3
3	Dynamics of Machinery	R20ME3203	PC	30	70	100	2	1	0	3
4	Professional Elective Course -II									
	Advanced Mechanics of Solids	R20ME3204	PE	30	70	100	3	0	0	3
	Nonconventional Sources of energy	R20ME3205								
	Quality concepts in Design	R20ME3206								
Robotics & Applications	R20ME3207									
5	Open Elective Course/Job Oriented Elective - II									
	Industrial Engineering & Management (Other than ME)	R20CC2OE05	OE	30	70	100	3	0	0	3
Industrial Robotics (Other than ME)	R20CC2OE06									
6	Heat Transfer Lab	R20ME32L1	PC	15	35	50	0	0	3	1.5
7	Machine Tools & Machine Dynamics Lab	R20ME32L2	PC	15	35	50	0	0	3	1.5
8	Pneumatics & HVAC Lab	R20ME32L3	PC	15	35	50	0	0	3	1.5
9	English for Employability Skills	R20CC32SC1	SC	-	50	50	0	0	4	2
10	Essence of Indian Traditional Knowledge	R20CC32MC1	MC	-	-	-	2	0	0	0
Total										21.5
11	Honors / Minors Course		HC	30	70	100	4	0	0	4



Handwritten signature in green ink.

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist) A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

IV B.TECH – I SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Professional Elective Course-III		PE	30	70	100	3	0	0	3
	Digital Manufacturing	R20ME4102								
	Design for Manufacturing	R20ME4103								
	Power Plant Engineering	R20ME4104								
	Optimization Techniques	R20ME4105								
Total Quality Management	R20ME4106									
2	Professional Elective Course-IV		PE	30	70	100	3	0	0	3
	Finite Element Method	R20ME4107								
	Experimental Stress Analysis	R20ME4108								
	Solar Energy Systems	R20ME4109								
	Big Data Analytics	R20ME4110								
Automation in Manufacturing	R20ME4111									
3	Professional Elective Course-V		PE	30	70	100	3	0	0	3
	Industrial Engineering & Management	R20ME4112								
	Mechanical Vibrations	R20ME4113								
	Waste Heat Recovery Systems	R20ME4114								
	Production Planning and Control	R20ME4115								
Electric & Hybrid Vehicles	R20ME4116									
4	Open Elective Course/Job Oriented Elective –III		OE	30	70	100	3	0	0	3
	Automotive Vehicles	R20CC3OE05								
	Nano Technology	R20CC3OE06								
5	Open Elective Course/Job Oriented Elective –IV		OE	30	70	100	3	0	0	3
	Pneumatics & Hydraulic Automation	R20CC4OE05								
	Mechatronics	R20CC4OE06								
6	Humanity & Social Service Elective		HSSE	30	70	100	3	0	0	3



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

	1. Business Management Concepts for Engineering	R20CC4101								
	2. Entrepreneurship & Innovation	R20CC4117								
7	Mechatronics & Simulation Lab	R20ME41SC4	SC	-	50	50	0	0	4	2
8	Internship/ Community Service Project	R20CC41IN	SI	-	50	50	0	0	0	1.5
9	MOOCS Course	R20CC41MC	MC				0	0	0	1.5
Total										23
10	Honors / Minor Courses (MOOCS)		HC	30	70	100	4	0	0	4

IV B.TECH- II SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Major Project & Internship	R20CC42PW	PR				0	0	0	12
Total										12
Credits Grand Total										160





 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET ; 522 601
 Guntur (Dist.), A.P.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

III B.TECH. - I SEMESTER

S.No.	SUBJECT	SUBJECT CODE	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Linear & Digital IC Applications	R20EC3101	PC	3	0	0	30	70	100	3
2	Antennas and Wave Propagation	R20EC3102	PC	3	0	0	30	70	100	3
3	Digital Signal Processing	R20EC3103	PC	3	0	0	30	70	100	3
4	Open Elective - I									
	i. Principles of Signals, Systems & Communications (Other than ECE)	R20EC3104	OE	3	0	0	30	70	100	3
	ii. Introduction to Data Science	R20EC3105								
5	Professional Elective-I:									
	i. Electronic Measurements and Instrumentation	R20EC3106								
	ii. Data Communication and Computer Networks	R20EC3107	PE	3	0	0	30	70	100	3
	iii. Statistical Methods in AI	R20EC3108								
	iv. Signals and Transform Techniques	R20EC3109								
6	DSP Lab	R20EC31L1	PC	0	0	3	15	35	50	1.5
7	LDICA Lab	R20EC31L2	PC	0	0	3	15	35	50	1.5
8	Embedded Systems and Robotics Lab	R20EC31SC3	SC	1	0	2	-	50	50	2
9	Professional Ethics and Human Values	R20CC31MC01	MC	2	0	0	-	-	-	0
10	Summer Internship/Community Service Project	R20CC31IN	PR	0	0	0	-	50	50	1.5
	Total			17	0	10	195	505	700	21.5
	Honors/Minor course			4	0	0	30	70	100	4



Principal's Signature

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

III B.TECH., - II SEMESTER

S.No.	SUBJECT	SUBJECT CODE	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Micro wave and Optical communications	R20EC3201	PC	3	1	0	30	70	100	3
2	VLSI Design	R20EC3202	PC	3	0	0	30	70	100	3
3	Microprocessors and Microcontrollers	R20EC3203	PC	3	0	0	30	70	100	3
4	Professional Elective - II:									
	i. Data Acquisition and Transmission	R20EC3204								
	ii. Satellite Communications	R20EC3205	PE	3	0	0	30	70	100	3
	iii. Introduction to Machine Learning	R20EC3206								
	iv. Digital Image Processing	R20EC3207								
5	Open Elective - II									
	i. Fundamentals of Image Processing (Other than ECE)	R20CC2OE07	OE	3	0	0	30	70	100	3
	ii. Global Positioning System (GPS)	R20CC2OE08								
6	MP&MC Lab	R20EC32L1	PC	0	0	3	15	35	50	1.5
7	VLSI Lab	R20EC32L2	PC	0	0	3	15	35	50	1.5
8	MW&OC Lab	R20EC32L3	PC	0	0	3	15	35	50	1.5
9	English Employability Skills	R20CC32SC1	SC	1	0	2	0	50	50	2
10	Essence of Indian Traditional Knowledge	R20CC32MC1	MC	2	0	0	-	-	-	0
	Total			17	1	13	195	505	700	21.5
	Honors/Minor course			4	0	0	30	70	100	4



[Handwritten Signature]

PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPETA - 522 601
 Guntur (Dist.), A.P.

IV B.TECH., - I SEMESTER

S.No.	SUBJECT	SUBJECT CODE	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Professional Elective - III:		PE	3	0	0	30	70	100	3
	i. PC based Instrumentation	R20EC4101								
	ii. Cellular and Mobile Communication	R20EC4102								
	iii. Introduction to Deep Learning	R20EC4103								
	iv. Speech Processing	R20EC4104								
2	Professional Elective - IV:		PE	3	0	0	30	70	100	3
	i. Bio Medical Instrumentation	R20EC4105								
	ii. Radar Systems	R20EC4106								
	iii. Soft Computing Techniques	R20EC4107								
	iv. DSP Architectures	R20EC4108								
3	Professional Elective - V:		PE	3	0	0	30	70	100	3
	i. Analytical Instrumentation	R20EC4109								
	ii. Advanced communication Technologies	R20EC4110								
	iii. Edge Computing	R20EC4111								
	iv. Multimedia Signal Processing	R20EC4112								
4	Open Elective - III		OE	3	0	0	30	70	100	3
	i. Introduction to Micro Processors & Micro Controllers (Other than ECE)	R20CC3OE07								
	ii. Nano Electronics	R20CC3OE08								
5	Open Elective - IV:		OE	3	0	0	30	70	100	3
	i. Introduction to Embedded Systems (Other than ECE)	R20CC4OE07								
	ii. Embedded and Real time Operating System	R20CC4OE08								



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

6	Humanities and Social Science Elective: i. Business Management Concepts for Engineers	R20CC4101	HSSE	3	0	0	30	70	100	3
	ii. Entrepreneurship and Innovation	R20CC4117								
7	Python Programming for Deep Learning/Mobile App Development	R20EC41SC1	SC	1	0	2	0	50	50	2
8	Internship/Community Service Project	R20CC41IN	PR	0	0	0	-	50	50	1.5
9	MOOCS	R20CC41MC	PE	-	-	-	-	-	-	1.5
	Total			17	0	6	195	505	700	23
	Honors/Minor course			4	0	0	30	70	100	4

IV B.TECH. - II SEMESTER

S.No.	SUBJECT	SUBJECT CODE	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Internship and Project Work	R20CC42PW	PR	0	0	0	60	140	200	12



Handwritten signature in green ink

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 501
Guntur (Dist.), A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

R20 COURSE STRUCTURE

III B.TECH – I SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1		Design and Analysis of Algorithms	PC	30	70	100	3	0	0	3
2		Computer Networks	PC	30	70	100	3	0	0	3
3		Compiler Design	PC	30	70	100	3	0	0	3
4		Operating Systems	PC	30	70	100	3	0	0	3
5		Professional Elective – I 1. Data Warehousing and Data Mining 2. Computer Graphics 3. Software Testing Methodologies 4. Distributed Systems	PE	30	70	100	3	0	0	3
6		Design and Analysis of Algorithms and CD (Lex, Yacc) Lab	PC	15	35	50	0	0	3	1.5
7		CN & OS Lab	PC	15	35	50	0	0	3	1.5
8		English Employability Skills	SOC	-	50	50	0	0	4	2
9		Summer Internship/Practical Training/Mini Project	PR	15	35	50	0	0	0	1.5
10		Essence of Indian Traditional Knowledge	MC	-	-	-	2	0	0	0
TOTAL										21.5

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPETA - 522 601

Guntur (Dist.), A.P.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

R20 COURSE STRUCTURE

III B.TECH – II SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1		Machine Learning	PC	30	70	100	3	0	0	3
2		Advanced Java and Web Technologies	PC	30	70	100	3	0	0	3
3		Cryptography and Network Security	PC	30	70	100	3	0	0	3
4		Professional Elective – II 1. Big Data Analytics 2. Mobile Computing 3. Design Patterns 4. High Performance Computing	PE	30	70	100	3	0	0	3
5		Open Elective – II	OE	30	70	100	3	0	0	3
6		Advanced Java and Web Technologies Lab	PC	15	35	50	0	0	3	1.5
7		Machine Learning Lab	PC	15	35	50	0	0	3	1.5
8		Software Lab	ES	15	35	50	0	0	3	1.5
9		IOT	SOC	-	50	50	0	0	4	2
10		PE and HV	MC	-	-	-	2	0	0	0
TOTAL										21.5

PRINCIPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**R20 COURSE STRUCTURE
IV B.TECH – I SEMESTER**

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1		Professional Elective – III 1. Cyber Security 2. Wireless and Sensor Networks 3. Software oriented Architecture 4. Web and Micro Services	PE	30	70	100	3	0	0	3
2		Professional Elective – IV 1. Deep Learning 2. DevOps 3. Optimization and Modelling Techniques 4. E- Commerce	PE	30	70	100	3	0	0	3
3		Professional Elective – V 1. Social Media Analytics/ 2. Natural Language Processing 3. Software Defined Networks 4. Software Project Management 5. Human Computer Interaction	PE	30	70	100	3	0	0	3
4		Open Elective – III	OE	30	70	100	3	0	0	3
5		Open Elective – IV	OE	30	70	100	3	0	0	3
6		Business Management Concepts for Engineers/Entrepreneurship and Innovation	HS	30	70	100	3	0	0	3
7		Agile with SCRUM	SOC	-	50	50	0	0	4	2
8		Industrial/Research Internship/ Mini Project	PR	50	-	50	0	0	0	3
TOTAL										23



[Signature]

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

R20 COURSE STRUCTURE

IV B.TECH – II SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1		Major Project	PR	60	140	200	-	-	-	12
TOTAL										

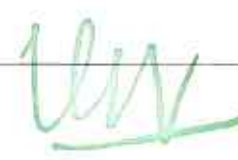

IQAC


PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

**R20 COURSE STRUCTURE- IT
III B.TECH – I SEMESTER**

S.N O.	SUBJECT CODE	SUBJECT	CAT. CODE	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CRE DITS
1	R20CC3101	Operating Systems	PC	30	70	100	3	0	0	3
2	R20IT3103	Automata and Compiler Design	PC	30	70	100	3	0	0	3
3	R20IT3104	Advanced Web Technologies	PC	30	70	100	3	0	0	3
4		Open Elective-1	PC	30	70	100	3	0	0	3
5	R20CC3102 R20CC3106 R20IT3107 R20IT3105	Professional Elective – I 1.Data Warehousing and Data Mining 2.Computer Graphics 3.Software Testing Methodologies 4.NoSQL Database Systems	PE	30	70	100	3	0	0	3
6	R20IT31L3	Advanced Web Technologies Lab	PC	15	35	50	0	0	3	1.5
7	R20CC31L2	CN & OS LAB	PC	15	35	50	0	0	3	1.5
8	R20CC31L1	English Employability Skills	SOC	-	50	50	1	0	2	2
9	R20CC31IN	Internship/ Community Service Project	PR	-	50	50	0	0	0	1.5
10	R20CC31MC 02	Essence of Indian Traditional Knowledge	MC	-	-	-	2	0	0	0
TOTAL										21.5

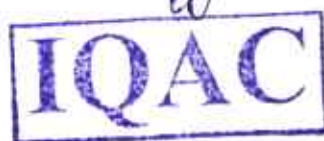



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF INFORMATION TECHNOLOGY

**R20 COURSE STRUCTURE- IT
III B.TECH – II SEMESTER**

S.N O	SUBJECT CODE	SUBJECT	CAT. COD E	INTER NAL MARKS	EXTER NAL MARK S	TOTAL MARKS	L	T	P	CRED ITS
1	R20CC3204	Machine Learning	PC	30	70	100	3	0	0	3
2	R20IT3202	Agile Methodologies	PC	30	70	100	3	0	0	3
3	R20CC3201	Cryptography and Network Security	PC	30	70	100	3	0	0	3
4	R20CC3206 R20CC3202 R20IT3205	Professional Elective – II 1.Big Data Analytics 2.Mobile Computing 3.Design Patterns	PE	30	70	100	3	0	0	3
5		Open Elective – II	OE	30	70	100	3	0	0	3
6	R20CC32L2	Machine Learning Lab	PC	15	35	50	0	0	3	1.5
7	R20CC32L1	Agile Lab	PC	15	35	50	0	0	3	1.5
8	R20CC31L3	Software Lab-2	ES	15	35	50	0	0	3	1.5
9	R20IT32L4	IOT	SOC	-	50	50	1	0	2	2
10	R20CC32MC 2	PE and HV	MC	-	-	-	2	0	0	0
TOTAL										21.5



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601

Guntur (Dist.) - A.P.

R20 COURSE STRUCTURE- IT
IV B.TECH – I SEMESTER

S.NO	SUBJECT CODE	SUBJECT	CAT. CODE	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20IT4105 R20CC4106 R20CC4103	Professional Elective – III 1. Deep Learning 2. Natural Language Processing 3. Service oriented Architecture	PE	30	70	100	3	0	0	3
2	R20IT4107 R20IT4110 R20IT4109	Professional Elective – IV 1. Block Chain Technologies 2. DevOps 3. Medical Image Data Processing	PE	30	70	100	3	0	0	3
3	R20IT4111 R20IT4112 R20IT4102	Professional Elective – V 1. Data Visualization Techniques 2. Biometric Security 3. Human Computer Interaction	PE	30	70	100	3	0	0	3
4		Open Elective – III	OE	30	70	100	3	0	0	3
5		Open Elective – IV	OE	30	70	100	3	0	0	3
6	R20CC4101 R20CC4117	Humanities and Social Science Electives 1. Business Management Concepts for Engineers 2. Entrepreneurship and Innovation	HS SE	30	70	100	3	0	0	3
7		Agile with SCRUM	SOC	-	50	50	1	0	2	2
8	R20CC411N	Internship / Community Service Project	PR	-	50	50	0	0	0	1.5
9	R20CC41MC	MOOC's	PC	-	-	-	-	-	-	1.5
TOTAL										23



[Handwritten Signature]

DEPARTMENT OF CSE (AI)

R20 COURSE STRUCTURE – CSE (AI)
III B.TECH – I SEMESTER

S.N O.	SUBJECT CODE	SUBJECT	CA T. CO DE	INTE RNAL MAR KS	EXTE RNAL MARK S	TOTA L MARK S	L	T	P	CRE DITS
1	R20CC3101	Operating Systems	PC	30	70	100	3	0	0	3
2	R20CC3104	Computer Networks	PC	30	70	100	3	0	0	3
3	R20AI3105	Machine Learning	PC	30	70	100	3	0	0	3
4		Open Elective-I	OE	30	70	100	2	0	2	3
5	R20CC3102 R20CC3103 R20CC3106	Professional Elective-I 1. Data Warehousing and Data Mining. 2. Design and Analysis of Algorithms 3. Computer Graphics	PE	30	70	100	3	0	0	3
6	R20CC31L2	CN & OS Lab (Software Lab-1)	PC	15	35	50	0	0	3	1.5
7	R20AI31L3	Machine Learning Lab	PC	15	35	50	0	0	3	1.5
8	R20CC31L1	English Employability Skills	SOC	-	50	50	1	0	2	2
9	R20CC31IN	Internship / Community Service Project	PR	-	50	50	0	0	0	1.5
10	R20CC31MC 2	Essence of Indian Traditional Knowledge	MC	-	-	-	2	0	0	0
						Total				21.5



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF CSE (AI)

R20 COURSE STRUCTURE – CSE (AI)
III B.TECH – II SEMESTER

S.N O.	SUBJECT CODE	SUBJECT	CAT. CODE	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CRE DITS
1	R20AI3204	Deep Learning	PC	30	70	100	3	0	0	3
2	R20AI3206	Natural Language Processing	PC	30	70	100	3	0	0	3
3	R20CC3205	Advanced Java and Web Technologies	PC	30	70	100	3	0	0	3
4		Open Elective-II	OE	30	70	100	2	0	2	3
5	R20CC3201 R20CC3202 R20AI3203	Professional Elective-II 1. Cryptography & Network Security 2. Mobile Computing 3. High Speed Networks	PE	30	70	100	3	0	0	3
6	R20CC32L1	AJWT LAB	PC	15	35	50	0	0	3	1.5
7	R20AI32L2	Deep Learning Lab	PC	15	35	50	0	0	3	1.5
8	R20AI32L3	Natural Language Processing Lab	PC	15	35	50	0	0	3	1.5
9	R20AI32L4	Design Thinking and Innovation	SOC	-	50	50	1	0	2	2
10	R20CC32M C2	Professional Ethics & Human Values	MC	-	-	-	2	0	0	0
Total										21.5



Handwritten signature in green ink.

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF CSE (AI)

R20 COURSE STRUCTURE – CSE (AI)
IV B.TECH – I SEMESTER

S.N O.	SUBJECT CODE	SUBJECT	CAT . CODE	INTER NAL MARK S	EXTE RNAL MARK S	TOT AL MARK S	L	T	P	CR EDI TS
1	R20AI4103 R20AI4106 R20AI4107	Professional Elective-III 1. Sentiment Analysis 2. Computer Vision & Perception 3. Artificial Neural Networks	PE	30	70	100	3	0	0	3
2	R20AI4108 R20CC4105 R20CC4102	Professional Elective-IV 1. Reinforcement Learning 2. Software Project Management 3. Human Computer Interaction	PE	30	70	100	3	0	0	3
3	R20CC4104 R20AI4109 R20AI4110	Professional Elective-V 1. E-Commerce 2. Humans and Intelligent Machines 3. Speech Processing	PE	30	70	100	3	0	0	3
4		Open Elective-III	OE	30	70	100	2	0	2	3
5		Open Elective-IV	OE	30	70	100	2	0	2	3
6	R20CC4101 R20CC4117	Humanities and Social Science Electives: 1. Business Management Concepts for Engineers 2. Entrepreneurship and Innovation	HS SE	30	70	100	3	0	0	3
7	R20CC41LI	Agile with Scrum	SOC	-	50	50	1	0	2	2
8	R20CC41IN	Internship / Community Service Project	PR	-	50	50	0	0	0	1.5
9	R20CC41MC	MOOCs	PC	-	-	-	-	-	-	1.5
Total										23



PRINCIPAL



DEPARTMENT OF CSE (AI)

R20 COURSE STRUCTURE – CSE (AI)
IV B.TECH – II SEMESTER

S.N O.	SUBJECT CODE	SUBJECT	Cat. Code	INTERNA L MARKS	EXTER NAL MARKS	TOTAL MARK S	L	T	P	CRE DITS
1	R20CC42P W	INTERNSHIP AND PROJECT WORK	PR	60	140	200	0	0	0	12
Total										12


IQAC


PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF MCA

III SEMESTER

S. No.	Course Code	Course Name	Cat	L	T	P	Credits
1	R20MCA301	Machine Learning with Python	PC	3	0	0	3
2	R20MCA302	Web Technologies	PC	3	0	0	3
3	R20MCA303	Network Security and Cryptography	PC	3	0	0	3
4	Program Elective-2		PE	3	0	0	3
	R20MCA304	Cloud Computing					
	R20MCA305	Digital Image Processing					
	R20MCA306	Internet of Things					
	R20MCA307	Unified Modeling Languages					
R20MCA3MC	MOOCs-2 (NPTEL/SWAYAM/ COURSERA) Any recommended course						
5	R20MCA308	Human Resource Management	MS	3	0	0	3
6	R20MCA3L1	Web Technologies Lab	PC	0	0	4	2
7	R20MCA3L2	Machine Learning with Python Lab	PC	0	0	4	2
8	R20MCA3L3	Network Security, Cryptography & UML Lab	PC	0	0	4	2
9	R20MCA3MNC	Employability Skills-2	AC	1	0	0	0
10	R20MCA3MP	Internship / Industry Oriented Mini Project	PW				1
Total				16	0	12	22



Handwritten signature in green ink


PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPETA - 522 801
 Guntur (Dist.) A.P.

DEPARTMENT OF MCA

II SEMESTER

S. No.	Course Code	Course Name	Cat	L	T	P	Credits
1	R20MCA201	Computer Networks	PC	3	0	0	3
2	R20MCA202	Object oriented Programming using JAVA	PC	3	0	0	3
3	R20MCA203	Software Engineering	PC	3	0	0	3
4	R20MCA204	Design and Analysis of Algorithm	PC	3	0	0	3
5	Program Elective-I		PC / PE	3	0	0	3
	R20MCA205	1. Artificial Intelligence					
	R20MCA206	2. Advanced Unix Programming					
	R20MCA207	3. Data Warehousing and Data mining					
	R20MCA2MC	4. MOOCs-I (NPTEL/SWAYAM/ COURSERA) Any recommended course					
6	R20MCA2L1	Object Oriented Programming using JAVA Lab	PC	0	0	4	2
7	R20MCA2L2	Statistical Programming with R Lab	PC	0	0	4	2
8	R20MCA2L3	Employability Skills Lab	BS&H	0	0	4	1
Total				15	0	12	20

IQAC


 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET - 522 601
 Guntur (Dist.), A.P.

DEPARTMENT OF MCA

IV SEMESTER

S. No.	Course Code	Course Name	Cat	L	T	P	Credits
1	Program Elective-3		PE	3	0	0	3
	R20MCA401	Block Chain technologies					
	R20MCA402	Design Patterns					
	R20MCA403	E-Commerce					
	R20MCA4MC1	MOOCs-3 (NPTEL/SWAYAM/ COURSERA) 1. Full Stack Technologies 2. Any recommended course					
2	Program Elective-4		PE	3	0	0	3
	R20MCA404	Big Data Analytics					
	R20MCA405	Cyber Security					
	R20MCA406	Human Computer Interaction					
	R20MCA4MC2	MOOCs-4 (NPTEL/SWAYAM) 1. Data Science 2. Any recommended course					
3		Project Work/ Dissertation- R20MCA4PW	PW	0	0	0	10
			Total	6	0	0	16

H

IQAC

Usw

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.). A.P.

DEPARTMENT OF MBA

Dual Electives:

The Specializations will be offered in the areas of Marketing, Finance, Human Resource Management (HRM) and Systems. The students should choose any **Two** of the specializations in the beginning of the third semester of MBA. The students cannot change specializations which are selected in the first week of third semester and the same combination should continue in the fourth semester. In each specialization the student have to choose two elective papers in third and fourth semesters. The specializations and electives will be offered subjected to a minimum of 20 students.

II MBA- III SEMESTER

S.No	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	19MBA3TH01	Strategic Management	4	0	-	40	60	100	4
2	19MBA3TH02	Business Ethics & Corporate Governance	4	0	-	40	60	100	4
3	19MBA3TH03	Business Analytics	4	0	-	40	60	100	4
4		Elective-I (SPL-I)	4	0	-	40	60	100	4
5		Elective-II (SPL-I)	4	0	-	40	60	100	4
6		Elective-III (SPL-II)	4	0	-	40	60	100	4
7		Elective-IV (SPL-II)	4	0	-	40	60	100	4
8	19MBA3MC01	Community Services (MC)	-	-	-	-	-	-	-
TOTAL			28	0	0	280	420	700	28

II MBA- IV SEMESTER

S.No	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	19MBA4TH01	Logistics and Supply Chain Management	4	0	-	40	60	100	4
2	19MBA4TH02	Entrepreneurship Development	4	0	-	40	60	100	4
3		Elective-V (SPL-I)	4	0	-	40	60	100	4
4		Elective-VI/SPL-I)	4	0	-	40	60	100	4
5		Elective-VI (SPL-II)	4	0	-	40	60	100	4
6		Elective-III (SP.-II)	4	0	-	40	60	100	4
7	19MBA4PW01	Major Project/ Comprehensive Viva- Voce	-	-	-	-	-	-	8
TOTAL			24	0	0	240	360	600	32



DEPARTMENT OF MBA

FINANCE ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
III	19MBA3THF1	Investment and Portfolio Management	4	0	-	40	60	100	4
III	19MBA3THF2	Corporate Taxation	4	0	-	40	60	100	4
III	19MBA3THF3	Banking & Insurance	4	0	-	40	60	100	4
III	19MBA3THF4	Personal Financial Planning	4	0	-	40	60	100	4
IV	19MBA4THF1	Financial Risk Management & Derivatives	4	0	-	40	60	100	4
IV	19MBA4THF2	Financial Institutions & Services	4	0	-	40	60	100	4
IV	19MBA4THF3	International Financial Management	4	0	-	40	60	100	4
IV	19MBA4THF4	Strategic Investment and Financial Decisions	4	0	-	40	60	100	4

HRM ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
III	19MBA3THH1	Management of IR	4	0	-	40	60	100	4
III	19MBA3THH2	Compensation and Reward Management	4	0	-	40	60	100	4
III	19MBA3THH3	Performance Management	4	0	-	40	60	100	4
III	19MBA3THH4	Employee Engagement & Retention Management	4	0	-	40	60	100	4
IV	19MBA4THH1	International HRM	4	0	-	40	60	100	4
IV	19MBA4THH2	Leadership	4	0	-	40	60	100	4
IV	19MBA4THH3	Human Resource Development	4	0	-	40	60	100	4
IV	19MBA4THH4	Industrial Jurisprudence & Labour legislations	4	0	-	40	60	100	4

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601

DEPARTMENT OF MBA

MARKETING ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
III	19MBA3THM1	Customer Relationship Management & CB	4	0	-	40	60	100	4
III	19MBA3THM2	Event Management	4	0	-	40	60	100	4
III	19MBA3THM3	Retail Marketing	4	0	-	40	60	100	4
III	19MBA3THM4	Rural Marketing	4	0	-	40	60	100	4
IV	19MBA4THM1	Services Marketing	4	0	-	40	60	100	4
IV	19MBA4THM2	Digital Marketing	4	0	-	40	60	100	4
IV	19MBA4THM3	Brand Management	4	0	-	40	60	100	4
IV	19MBA4THM4	Advertising Management	4	0	-	40	60	100	4

SYSTEMS ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
III	19MBA3THS1	Decision Support System	4	0	-	40	60	100	4
III	19MBA3THS2	Data warehousing & Data Mining	4	0	-	40	60	100	4
III	19MBA3THS3	Software Project Management	4	0	-	40	60	100	4
III	19MBA3THS4	E- Business	4	0	-	40	60	100	4
IV	19MBA4THS1	Business Intelligence	4	0	-	40	60	100	4
IV	19MBA4THS2	Enterprise Resource Planning	4	0	-	40	60	100	4
IV	19MBA4THS3	Information Systems Audit	4	0	-	40	60	100	4
IV	19MBA4THS4	Cyber Laws & Security	4	0	-	40	60	100	4

IQAC

NEC

[Handwritten Signature]

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA - 522 601
Guntur Dist.

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)