

DEPARTMENT OF CIVIL ENGINEERING

III B. TECH. – I SEMESTER

Sl. No.	Subject Code	Subject	cat code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
COMMON CORE										
1	19BCC5TH01	Entrepreneurship And Innovation	HS	40	60	100	3	0	0	3
PROFESSIONAL CORE										
2	19BCE5TH02	Structural Analysis-II	PC	40	60	100	3	0	0	3
3	19BCE5TH03	Design of Reinforced Concrete Structures	PC	40	60	100	3	0	0	3
4	19BCE5TH04	Soil mechanics	PC	40	60	100	3	0	0	3
5	19BCE5TH05	Concrete technology	PC	40	60	100	3	0	0	3
OPEN ELECTIVE II										
6	19BCC5OE01	Disaster Management	OE	40	60	100	3	0	0	3
7	19BCC5OE02	Green Building & Sustainability	OE	40	60	100	3	0	0	3
LABORATORIES										
8	19BCE5LB01	Soil Mechanics laboratory	PC	20	30	50	0	0	3	1.5
9	19BCE5LB02	Concrete Technology laboratory	PC	20	30	50	0	0	3	1.5
10	19BCC5MC01	Advance Communication Skills Lab	HS				2	0	0	0
Total										21





 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPETA - 522 504
 Guntur (Dist.), A.P.

DEPARTMENT OF CIVIL ENGINEERING

III B. TECH. – II SEMESTER

Sl. No.	Subject Code	Subject	cat code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
PROFESSIONAL CORE										
1	19BCE6TH01	Design And Drawing Of Steel Structures	PC	40	60	100	3	0	0	3
2	19BCE6TH02	Irrigation & Water Resources Engineering	PC	40	60	100	3	0	0	3
3	19BCE6TH03	Foundation Engineering	PC	40	60	100	3	0	0	3
4	19BCE6TH04	Transportation Engineering	PC	40	60	100	3	0	0	3
PROFESSIONAL ELECTIVE-I										
5	19BCE6PE05	Advanced Design Of Concrete Structures	PE	40	60	100	3	0	0	3
6	19BCE6PE06	Numerical Methods In Civil Engineering	PE	40	60	100	3	0	0	3
7	19BCE6PE07	Groundwater Hydrology	PE	40	60	100	3	0	0	3
8	19BCE6PE08	Alternative Construction Technology	PE	40	60	100	3	0	0	3
OPEN ELECTIVE III										
9	19BCC6OE01	Solid And Hazardous Waste Management	OE	40	60	100	3	0	0	3
10	19BCC6OE02	Ground Water Development And Management	OE	40	60	100	3	0	0	3
LABORATORIES										
11	19BCE6LB01	Transportation Engineering Laboratory	PC	20	30	50	0	0	3	1.5
12	19BCE6MP	Mini Project	PR	20	30	50	0	0	3	1.5
13	19BCE6LB02	Field Work With Digital Technologies	PR	20	30	50	0	0	3	1.5
Total										22.5





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DEPARTMENT OF CIVIL ENGINEERING

IV B.TECH- I SEMESTER COURSE STRUCTURE

S.No	Subject Name	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Estimation Costing & Valuation	PC	3	1	-	40	60	100	3
2	Environmental Engineering-II	PC	3	1	-	40	60	100	3
3	Construction Technology & Management	HS	4	-	-	40	60	100	3
4	Open Elective-III (See The List Of Open Electives)	OE	4	-	-	40	60	100	3
5	Professional Elective-II	PE							
	Matrix Methods Of Structural Analysis								
	Advanced Design Of R C Structures								
	Earth And Earth Retaining Structures		3	1	-	40	60	100	3
	Highway Geometric Design								
	Open Channel Hydraulics								
	Advanced Surveying								
6	Professional Elective-III	PE							
	Numerical Methods In Civil Engineering								
	Theory Of Elasticity								
	Pavement Materials And Construction								
	Air Pollution And Control		3	1	-	40	60	100	3
	Photogrammetry And Remote Sensing								
	Advanced Design Of Steel Structures								
	Bridge Engineering								
7	Environmental Engineering Lab	PC	-	-	3	25	50	75	2
8	Mini Project On Planning, Analysis & Design Of G+2 building	PRC	-	-	3	25	50	75	2

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DEPARTMENT OF CIVIL ENGINEERING

IV B.TECH- II SEMESTER COURSE STRUCTURE

S.No	Subject Name	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Business Management Concepts For Engineers	PC	4	-	-	40	60	100	3
2	Professional Elective-IV	PE							
	Pre-Stressed Concrete Structures								
	Advanced Foundation Engineering.								
	Pavement Design								
	Earthquake Resistant Design Of Structures		3	1	-	40	60	100	3
	Industrial Waste Water Treatment								
	Pre-Fabricated Structures								
Design And Drawing Of Hydraulic Structures									
3	Professional Elective-V	PE							
	Finite Element Analysis								
	Reinforced Earth Structures								
	Urban Transport Planning								
	Geographic Information System		3	1	-	40	60	100	3
	Water Resources Engineering								
Environmental Impact Assessment									
4	Project Work	PRC	-	-	-	80	120	200	10
5	Practical Training/Intern Ship	PRC	-	-	-	40	60	100	03
	TOTAL		10	2	-	240	360	600	22





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 Guntur (Dist.), A.P.

DEPARTMENT OF CIVIL ENGINEERING


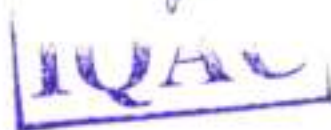
Open Elective – III	Department Offering the Subject	No. of periods per week		No. of Credits
		L	T	
Operations Research (Other Than Me)	ME	4	-	3
Robotics	ME	4	-	3
Energy Audit, Conservation & Management (Other Than Eee)	EEE	4	-	3
Non-Conventional Energy Resources (Other Than EEE)	EEE	4	-	3
Introduction To Embedded Systems (Other Than ECE)	ECE	4	-	3
Global Positioning System	ECE	4	-	3
Computer Networks (Other Than CSE & ECE)	CSE	4	-	3
Web Animation And Interactivity Using Flash	CSE	4	-	3
Web Services	CSE	4	-	3
Water Shed Management.	CE	4	-	3
Solid And Hazardous Waste Management (Other Than CE).	CE	4	-	3




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 Guntur (Dist.), A.P.

III B.TECH. – I SEMESTER

S.No.	Subject Code	Subject	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	19BEE5TH01	Control Systems	PC	40	60	100	3	-	-	3
2	19BEE5TH02	Power Electronics	PC	40	60	100	3	-	-	3
3	19BEE5TH03	Electrical Transmission System	PC	40	60	100	3	-	-	3
4	19BEE5TH04	Electrical Measurements	PC	40	60	100	3	-	-	3
5	19BEE5PE05	Professional Elective-I a. Special Electrical Machines	PE	40	60	100	3	-	-	3
	19BEE5PE06	b. Intellectual Property Rights								
	19BEE5PE07	c. Signals and System								
	19BEE5PE08	d. Electrical Energy Conservation and Auditing								
6		Open Elective-II	OE	40	60	100	3	-	-	3
7	19BEE5LB01	Electrical Machines Lab-II	PC	20	30	50		-	3	1.5
8	19BEE5LB02	Power Electronics Lab	PC	20	30	50		-	3	1.5
9	19BEE5LB03	Control System & Measurements Lab	PC	20	30	50		-	3	1.5
10	19BCC5MC01	Advanced Communication Skills	MC	-	-	-	-	-	3	-
		Total		300	450	750	18	-	12	22.5

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

III B.TECH. – II SEMESTER

S.No.	Subject Code	Subject	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	19BCC6TH01	Entrepreneurship and Innovation	HS	40	60	100	3	-	-	2
2	19BEE6TH02	Microprocessor & Microcontrollers	PC	40	60	100	3	-	-	3
3	19BEE6TH03	Internet of Things	ES	40	60	100	2	1	-	3
4	19BEE6TH04	Power System Analysis	PC	40	60	100	3	-	-	3
5	19BEE6PE05	Professional Elective-II a. Flexible AC Transmission Systems	PE	40	60	100	3	-	-	3
	19BEE6PE06	b. Advanced Power Electronic Converters								
	19BEE6PE07	c. Control of Electrical Drives								
	19BEE6PE08	d. Electrical Machine Design								
6		Open Elective-III	OE	40	60	100	3	-	-	3
7	19BEE6LB01	Microprocessors and Microcontrollers Lab	PC	20	30	50		-	3	1.5
8	19BEE6LB02	Process Automation Lab (Skill Lab)	PR	20	30	50		-	3	1
9	19BEE6MP	Mini Project	PR	50	-	50	-	-	3	1.5
		Total		330	420	750	18	-	9	21




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 NARASARAOPETA - 522 601
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Open Elective-II

S.No.	Subject Code	Open Elective-II Subject Title	Department Offering the Subject	No. of periods per week			No. of Credits
				L	T	P	
1	19BCC5OE01	Disaster Management	CE	3	0	0	3
2	19BCC5OE02	Green Building & Sustainability	CE	3	0	0	3
3	19BCC5OE03	Non-Conventional Energy Resources	EEE	3	0	0	3
4	19BCC5OE04	Basics in Electrical and Electronics Engineering (Other than EEE)	EEE	3	0	0	3
5	19BCC5OE05	Work study	ME	3	0	0	3
6	19BCC5OE06	Mechatronics	ME	3	0	0	3
7	19BCC5OE07	Fundamentals of Image Processing (Other than ECE)	ECE	3	0	0	3
8	19BCC5OE08	Consumer Electronics	ECE	3	0	0	3
9	19BCC5OE09	Artificial Intelligence	CSE	3	0	0	3
10	19BCC5OE10	OOPS through JAVA	CSE	3	0	0	3
11	19BCC5OE11	Object Oriented Programming through C++	IT	3	0	0	3
12	19BCC5OE12	Cloud Computing	IT	3	0	0	3
13	19BCC5OE13	Digital Marketing	MBA	3	0	0	3
14	19BCC5OE14	Personal Finance Planning	MBA	3	0	0	3



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

Open Elective-III

S.No.	Subject Code	Open Elective-III Subject Title	Department Offering the Subject	No. of periods per week			No. of Credits
				L	T	P	C
1	19BCC6OE01	Solid and hazardous waste management	CE	3	0	0	3
2	19BCC6OE02	Ground Water Development and Management	CE	3	0	0	3
3	19BCC6OE03	Soft Computing	EEE	3	0	0	3
4	19BCC6OE04	Industrial Electronics	EEE	3	0	0	3
5	19BCC6OE05	Automotive Vehicles	ME	3	0	0	3
6	19BCC6OE06	Nano Technology	ME	3	0	0	3
7	19BCC6OE07	Introduction to Embedded Systems (Other than ECE)	ECE	3	0	0	3
8	19BCC6OE08	Global Positioning System(GPS)	ECE	3	0	0	3
9	19BCC6OE09	Cloud Computing	CSE	3	0	0	3
10	19BCC6OE10	Block Chain Technologies	CSE	3	0	0	3
11	19BCC6OE11	Digital Marketing	IT	3	0	0	3
12	19BCC6OE12	DevOps	IT	3	0	0	3
13	19BCC6OE13	Performance Management	MBA	3	0	0	3
14	19BCC6OE14	Services Marketing	MBA	3	0	0	3




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 Guntur (Dist.), A.P.

IV B.TECH. - I SEMESTER

S. No.	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Power System Operation and Control	PC	3	1	-	40	60	100	3
2	Switchgear and Protection	PC	3	1	-	40	60	100	3
3	Utilization of Electrical Energy	PC	3	1	-	40	60	100	3
4	Open Elective – II	OE	4	-		40	60	100	3
5	Professional Elective - III 1.Modern Control Systems 2.VLSI Design 3.Embedded Systems 4.Power Quality	PE	3	1	-	40	60	100	3
6	Professional Elective - IV 1.HVAC & DC Transmission 2.PLC and Automation 3.High Voltage Engineering 4.Optimization Techniques	PE	3	1	-	40	60	100	3
7	Power Systems and Simulation Lab	PC	-	-	3	25	50	75	2
8	Mini Project – II	PW	-	-	3	25	50	75	2
	Total		19	5	6	290	460	750	22




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

IV.TECH. - II SEMESTER

S. No.	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Soft Computing Techniques to Electrical Engineering	PC	3	1	-	40	60	100	3
2	Professional Elective – V 1. FACTS 2.Power System Deregulation 3.SmartGrid 4.Switched Mode Power Converters.	PE	3	1	-	40	60	100	3
3	Open Elective - III	OE	4	-	-	40	60	100	3
4	Practical Training / Internship	PW	-	-	-	40	60	100	3
5	Project Work	PW	-	-	-	80	120	200	10
	Total		10	2	-	240	360	600	22




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

Open Elective – II	Department Offering the Subject	No. of periods per week		No. of Credits
		L	T	
Subject Title				
Nanotechnology	ME	4	-	3
Work Study	ME	4	-	3
Fundamentals of Electrical Energy (Other than EEE)	EEE	4	-	3
Linear Control Theory (Other than EEE & ECE)	EEE	4	-	3
Introduction to Microprocessors and Micro Controllers (Other than ECE & EEE)	ECE	4	-	3
Consumer Electronics	ECE	4	-	3
Internet of Things (IOT) (Other than CSE)	CSE	4	-	3
Web Technologies (Other than CSE)	CSE	4	-	3
Cloud Computing (Other than ECE)	CSE	4	-	3
OOPS through JAVA (Other than CSE & ECE)	CSE	4	-	3
Disaster Management	CE	4	-	3
Building Services (Other than CE).	CE	4	-	3





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 NARASARAOPETA - 522 601
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Open Elective – III	Department Offering the Subject	No. of periods per week		No. of Credits
		L	T	
Subject Title				
Operations Research (Other Than ME)	ME	4	-	3
Robotics	ME	4	-	3
Energy Audit, Conservation & Management (Other than EEE)	EEE	4	-	3
Non-Conventional Energy Resources (Other than EEE)	EEE	4	-	3
Introduction to embedded systems (Other than ECE)	ECE	4	-	3
Global Positioning System	ECE	4	-	3
Computer Networks (Other than CSE & ECE)	CSE	4	-	3
Web Animation and Interactivity Using Flash	CSE	4	-	3
Web Services	CSE	4	-	3
Water shed Management.	CE	4	-	3
Solid and Hazardous waste management (Other than CE).	CE	4	-	3




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

III B.TECH- I SEMESTER

S.No.	Subject	Sub Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Business Management Concepts for Engineers	19BME5TH02	HS	40	60	100	3	-	-	3
2	Metal Cutting & Machine Tools	19BME5TH03	PC	40	60	100	3	-	-	3
3	Heat Power Engineering	19BME5TH04	PC	40	60	100	2	1	-	3
4	Design of Machine Elements -I	19BME5TH05	PC	40	60	100	2	1	-	3
5	Entrepreneurship and Innovation	19BCC5TH01	HS	40	60	100	2	-	-	2
6	Open Elective-2		OE	40	60	100	3	-	-	3
7	Engineering Skills Lab	19BME5LB01	PR	20	30	50	-	-	3	1.5
8	Metal Cutting & Machine Tools Lab	19BME5LB02	PC	20	30	50	-	-	3	1.5
9	Heat Power Engineering Lab	19BME5LB03	PC	20	30	50	-	-	3	1.5
Total										21.5





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

III B.TECH- II SEMESTER

S.No.	Subject	Sub Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Design of Machine Elements -II	19BME6TH02	PC	40	60	100	2	1	-	3
2	Heat Transfer	19BME6TH03	PC	40	60	100	2	1	-	3
3	Dynamics of Machinery	19BME6TH04	PC	40	60	100	2	1	-	3
4	Complex Variables, Probability & Statistics	19BME6TH01	BS	40	60	100	2	1	-	3
5	Professional Elective-1		PE	40	60	100	2	1	-	3
	Automobile Engineering	19BME6PE05								
	Refrigeration and air conditioning	19BME6PE06								
	Operations Research	19BME6PE07								
	Unconventional Machining Processes	19BME6PE08								
6	Open Elective-3		OE	40	60	100	3	-	-	3
7	Heat Transfer Lab	19BME6LB01	PC	20	30	50	-	-	3	1.5
8	Machine Dynamics Lab	19BME6LB02	PC	20	30	50	-	-	3	1.5
9	Mini Project	19BME6MP	PR	20	30	50	-	-	3	1.0
10	Advanced Communication Skills	19BCC6MC01	MC	-	-	-	3	-	-	0
Total										22.0

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 Guntur (Dist.), A.P.

Open Elective-II

S.No.	Open Elective-II Subject Title	Department Offering the Subject	Sub Code	No. of periods per week		No. of Credits
				L	T	
1	Non-Conventional Energy Resources	EEE	19BCC5OE03	3	-	3
2	Basics in Electrical and Electronics Engineering (Other than EEE)	EEE	19BCC5OE04	3	-	3
3	Work Study	ME	19BCC5OE05	3	-	3
6	Mechatronics (Other than ME)	ME	19BCC5OE08	3	-	3
7	Artificial Intelligence	CSE	19BCC5OE11	3	-	3
8	OOPS through JAVA	CSE	19BCC5OE13	3	-	3
9	Fundamentals of Image Processing (Other than ECE)	ECE	19BCC5OE09	3	-	3
10	Consumer Electronics	ECE	19BCC5OE10	3	-	3
11	Disaster Management	CE	19BCC5OE01	3	-	3
12	Green Building And Sustainability	CE	19BCC5OE02	3	-	3



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 Guntur (Dist.), A.P.

Open Elective-III

S.No.	Open Elective-III Subject Title	Department Offering the Subject	Sub Code	No. of periods per week		No. of Credits
				L	T	
1	Soft Computing	EEE	19BCC6OE03	3	-	3
2	Industrial Electronics	EEE	19BCC6OE04	3	-	3
3	Automotive Vehicles	ME	19BCC6OE05	3	-	3
4	Nano Technology	ME	19BCC6OE06	3	-	3
7	Cloud Computing	CSE	19BCC6OE12	3	-	3
8	Block Chain Technologies	CSE	19BCC6OE13	3	-	3
9	Introduction to Embedded Systems (Other than ECE)	ECE	19BCC6OE09	3	-	3
10	Global Positioning System(GPS)	ECE	19BCC6OE10	3	-	3
11	Solid And Hazardous Waste Management	CE	19BCC6OE01	3	-	3
12	Ground Water Development And Management	CE	19BCC6OE02	3	-	3



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Guntur (Dist.), A.P.

IV B.Tech - I SEMESTER COURSE STRUCTURE:


S. No	Subject Name	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Finite Element Methods	PC	3	1	-	40	60	100	3
2	CAD/CAM	PC	4	-	-	40	60	100	3
3	Advanced Manufacturing Processes	PC	4	-	-	40	60	100	3
4	Open Elective-III (See the List of Open Electives)	OE	4	-	-	40	60	100	3
5	ELECTIVE-II	PE							
	Power Plant Engineering								
	Tribology and Bearing Design								
	Advanced Tool Design		4	-	-	40	60	100	3
	Facility Layout and Material Handling								
6	ELECTIVE-III	PE							
	Computational Fluid Dynamics								
	Rapid Prototyping		3	1	-	40	60	100	3
	Advanced Mechanics of Solids								
	Production planning & Control								
7	CAD/CAM Lab	PC	-	-	3	25	50	75	2
8	Mini Project-II	PRC	-	-	-	25	50	75	2
9	NSS (Mandatory Non Credit Course)	MDC	-	-	2	-	-	-	-
	TOTAL		22	2	5	290	460	750	22

IV B.Tech - II SEMESTER COURSE STRUCTURE:

S. No	Subject Name	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Mechatronics	PC	4	-	-	40	60	100	3
	ELECTIVE-IV	PE							
	Refrigeration & Air Conditioning								
	Condition Monitoring								
	Powder Metallurgy		3	1	-	40	60	100	3
	Quality and Reliability Engineering								
2	ELECTIVE-V	PE							
	Alternate Sources of Energy								
	Experimental Stress Analysis		4	-	-	40	60	100	3
	Geometric Modelling								
	Operations Planning and Control								
3	Project Work	PRC	-	-	-	80	120	200	10
4	Practical Training/Internship	PRC	-	-	-	40	60	100	03
	TOTAL		11	1	-	240	360	600	22

Open Elective – III	Department Offering the Subject	No. of periods per week		No. of Credits
		L	T	
Subject Title				C
Operations Research (Other Than ME)	ME	4	-	3
Robotics	ME	4	-	3
Energy Audit, Conservation & Management (Other than EEE)	EEE	4	-	3
Non-Conventional Energy Resources (Other than EEE)	EEE	4	-	3
Introduction to embedded systems (Other than ECE)	ECE	4	-	3
Global Positioning System	ECE	4	-	3
Computer Networks (Other than CSE & ECE)	CSE	4	-	3
Web Animation and Interactivity Using Flash	CSE	4	-	3
Web Services	CSE	4	-	3
Water shed Management.	CE	4	-	3
Solid and Hazardous waste management (Other than CE).	CE	4	-	3




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III B.TECH. – I SEMESTER

S.No.	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	Linear & Digital IC Applications	PC	40	60	100	3	-	-	3
2	Entrepreneurship and Innovation	HS	40	60	100	2	-	-	2
3	Pulse and Digital Circuits	PC	40	60	100	3	-	-	3
4	Control Systems	PC	40	60	100	3	-	-	3
5	Computer Organization and Microprocessors	PC	40	60	100	3	-	-	3
6	Open Elective – II	OE	40	60	100	3	-	-	3
	i. Fundamentals of Image Processing (Other than ECE) ii. Consumer Electronics								
7	LDICA Lab	PC	20	30	50	-	-	3	1.5
8	EC & PDC Lab	PC	20	30	50	-	-	3	1.5
9	Skill Lab	OE	20	30	50	-	-	3	1.5
Total			300	450	750	17	-	9	21.5




 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	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDIT S
1	Antennas and Wave Propagation	PC	40	60	100	3	-	-	3
2	Digital Signal Processing	PC	40	60	100	3	-	-	3
3	Microcontrollers and Embedded Systems	PC	40	60	100	3	-	-	3
4	Object Oriented Programming through Java	ES	40	60	100	3	-	-	3
5	Open Elective – III i. Introduction to Embedded Systems (Other than ECE) ii. Global Positioning System(GPS)	OE	40	60	100	3	-	-	3
6	Professional Elective-I: i. Electronic Measurements and Instrumentation ii. Data Communication and Computer Networks iii. Embedded System Design with Advanced Processors iv. Statistical Methods in AI	PE	40	60	100	3	-	-	3
7	MP & MC Lab	PC	20	30	50	-	-	3	1.5
8	Object Oriented Programming through Java Lab	ES	20	30	50	-	-	3	1.5
9	Mini Project	PR	20	30	50	-	-	2	1
10	Advanced Communication Skills	MC	-	-	-	-	-	3	-
Total			300	450	750	18	11	22	



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

IV B. Tech. - I SEMESTER COURSE STRUCTURE:

S.No.	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Object Oriented Programming through Java	ES	3	1	-	40	60	100	3
2	Microcontrollers and Embedded Systems	PC	4	-	-	40	60	100	3
3	Computer Networks	PC	4	-	-	40	60	100	3
4	Professional Elective - II:	PE	4	-	-	40	60	100	3
	i. Digital IC design								
	ii. Satellite Communications								
	iii. Network Security and Cryptography								
	iv. Bio Medical Instrumentation								
v. Advanced DSP									
5	Professional Elective - III:	PE	4	-	-	40	60	100	3
	i. Mixed Signal Design								
	ii. Radar Systems								
	iii. Cloud Computing								
	iv. Analytical Instrumentation								
v. Digital Signal Processors and Architectures									
6	Open Elective - III	OE	4	-	-	40	60	100	3
7	VLSI and Embedded Systems Lab	PC	-	-	3	25	50	75	2
8	Object Oriented Programming through Java Lab	ES	-	-	3	25	50	75	2
Total			23	1	6	290	460	750	22




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

IV B.TECH. – II SEMESTER COURSE STRUCTURE:

S.No.	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	Cellular and Mobile Communications	PC	4	-	-	40	60	100	3
2	Professional Elective - IV: i. Low power IC design ii. Wireless Sensor Networks iii. System-On-Chip iv. PC based Instrumentation v. Speech Processing	PE	4	-	-	40	60	100	3
3	Professional Elective - V: i. FPGA Design ii. Software Defined Radio iii. Distributed Computing iv. Data Acquisition and Transmission v. Embedded System Design	PE	4	-	-	40	60	100	3
4	Project Work	PW	-	-	-	80	120	200	10
5	Practical Training / Internship	PW	-	-	-	40	60	100	3
Total			12	-	-	240	360	600	22




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

III B.TECH. - I SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	19BC15TH01	Operating Systems	PC	40	60	100	3	-	-	3
2	19BCS5TH03	Computer Networks	PC	40	60	100	3	-	-	3
3	19BC15TH02	Compiler Design	PC	40	60	100	3	-	-	3
4	19BCS5TH04	OOAD through UML	PC	40	60	100	3	-	-	3
5	19BCS5TH05	Advanced Java and Web Technologies	PC	40	60	100	3	-	-	3
6	19BCS5TH05 19BCS5TH08 19BCS5TH09 19BC15TH07	Professional Elective - I a. DWDM b. Computer Graphics c. Software Testing Methodology d. Microprocessors and Multicore systems	PE	40	60	100	3	-	-	3
7	19BCS5LB01	OS and UML Lab	PC	20	30	50	-	-	3	1.5
8	19BCS5LB02	Advanced Java and Web Technologies Lab	PC	20	30	50	-	-	3	1.5
9	19BCS5LB03	PE-I LAB	HS	20	30	50	-	-	3	1.5
10	19BCS5MP01	Mini Project	PR	20	30	50	-	-	-	1
11	19BCC5MC01	Advanced Communication Skills	MC	-	-	-	3	-	-	0
TOTAL										23.5



III B.TECH. - II SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	19BCS6TH02	Artificial Intelligence	PC	40	60	100	3	-	-	3
2	19BCS6TH03	Cryptography and Network Security	PC	40	60	100	3	-	-	3
3	19BCC6TH01	Entrepreneurship and Innovation	HS	40	60	100	2	-	-	2
4		Open Elective - II	OE	40	60	100	3	-	-	3
5	19BCS6PE04 19BCS6PE05 19BCS6PE06 19BCS6PE07	<u>Professional Elective - II</u> a. Big Data Analytics b. Network Programming c. Agile with SCRUM d. Mobile Computing	PE	40	60	100	3	-	-	3
6	19BCS6LB01	Cryptography and Network Security Lab	PC	20	30	50	-	-	3	1.5
7	19BCS6LB02	PE-II LAB	PC	20	30	50	-	-	3	1.5
8	19BCS6LB03	R PROGRAMMING LAB	ES	20	30	50	-	-	3	1.5
9	19BCS6LB04	Artificial Intelligence Lab	HS	20	30	50	-	-	3	1.5
TOTAL										20

* This lab covers experiments related to CNS and of the chosen PE-II



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPETA, 522 601.



OPEN ELECTIVE-II

S.No.	Open Elective-II Subject Title	Department Offering the Subject	Sub Code	No. of periods per week			No. of Credits
				L	T	P	C
1	Disaster Management	CE	19BCC5OE01	3	0	0	3
2	Green Building & Sustainability	CE	19BCC5OE02	3	0	0	3
3	Non-Conventional Energy Resources	EEE	19BCC5OE03	3	0	0	3
4	Basics in Electrical and Electronics Engineering (Other than EEE)	EEE	19BCC5OE04	3	0	0	3
5	Work study	ME	19BCC5OE05	3	0	0	3
6	Mechatronics	ME	19BCC5OE06	3	0	0	3
7	Fundamentals of Image Processing (Other than ECE)	ECE	19BCC5OE07	3	0	0	3
8	Consumer Electronics	ECE	19BCC5OE08	3	0	0	3
9	Artificial Intelligence	CSE	19BCC5OE09	3	0	0	3
10	OOPS through JAVA	CSE	19BCC5OE10	3	0	0	3
11	Object Oriented Programming through C++	IT	19BCC5OE11	3	0	0	3
12	Cloud Computing	IT	19BCC5OE12	3	0	0	3
13	Digital Marketing	MBA	19BCC5OE13	3	0	0	3
14	Personal Finance Planning	MBA	19BCC5OE14	3	0	0	3




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

IV B.TECH. – I SEMESTER


S. NO.	SUBJECT	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Internet of Things	PC	4	-	-	40	60	100	3
2	Big Data Analytics	PC	4	-	-	40	60	100	3
3	Professional Elective – III:	PE	4	-	-	40	60	100	3
	1. Distributed Operating Systems								
	2. Business Intelligence								
	3. Software Testing Methodology								
4. High Speed Networks									
4	Professional Elective – IV:	PE	4	-	-	40	60	100	3
	1. High Performance Computing								
	2. Machine Learning								
	3. Software Process and Project Management								
	4. Mobile Ad-hoc and Sensor Networks								
5. Programming with Ruby									
5	Open Elective – II (See the List of Open Electives)	OE	4	-	-	40	60	100	3
6	Mobile Application Development Lab	PC	-	-	3	25	50	75	2
7	Professional Skill based Lab CCNA- I / Oracle DBA / SQL DBA	PC	-	-	3	25	50	75	2
8	IOT Lab	PC	-	-	3	25	50	75	2
9	Big Data Analytics Lab	PC	-	-	3	25	50	75	2
10	MOOCS	MC	-	-	-	-	-	-	-
Total			20	-	12	300	500	800	23



IV B.TECH. – II SEMESTER

S. NO.	SUBJECT	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	Professional Elective – V: 1. Service Oriented Architecture 2. Pattern Recognition 3. Software Quality Assurance & Testing 4. Next Generation Networks 5. Artificial Intelligence	PE	4	-	-	40	60	100	3
2	Open Elective – III (See the List of Open Electives)	OE	4	-	-	40	60	100	3
3	Practical Training / Internship	PW	-	-	-	40	60	100	3
4	Major Project	PW	-	-	-	60	140	200	10
	Total		8	-	-	180	320	500	19




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

Open Elective – II	Department Offering the Subject	No.of periods per week		No.of Credits
		L	T	
Subject Title				
Nanotechnology	ME	4	-	3
Work Study	ME	4	-	3
Fundamentals of Electrical Energy(Other than EEE)	EEE	4	-	3
Linear Control Theory (Other than EEE & ECE)	EEE	4	-	3
Introduction to Microprocessors and Micro Controllers (Other than ECE & EEE)	ECE	4	-	3
Consumer Electronics	ECE	4	-	3
Internet of Things (IOT) (Other than CSE)	CSE	4	-	3
Web Technologies (Other than CSE)	CSE	4	-	3
Cloud Computing (Other than ECE)	CSE	4	-	3
OOPS through JAVA (Other than CSE & ECE)	CSE	4	-	3
Disaster Management	CE	4	-	3
Building Services (Other than CE).	CE	4	-	3




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

Open Elective – III	Department Offering the Subject	No.of periods per week		No.of Credits
		L	T	
Subject Title				
Operations Research (Other Than ME)	ME	4	-	3
Robotics	ME	4	-	3
Energy Audit, Conservation & Management (Other than EEE)	EEE	4	-	3
Non-Conventional Energy Resources (Other than EEE)	EEE	4	-	3
Introduction to embedded systems (Other than ECE)	ECE	4	-	3
Global Positioning System	ECE	4	-	3
Computer Networks (Other than CSE & ECE)	CSE	4	-	3
Web Animation and Interactivity Using Flash	CSE	4	-	3
Web Services	CSE	4	-	3
Water shed Management.	CE	4	-	3
Solid and Hazardous waste management (Other than CE).	CE	4	-	3

Subject/Course Classification:

All the Subjects/Courses offered for the B.Tech are broadly classified as (a) Foundation Courses (FC), (b) Core Courses (CC) and (c) Elective Courses (EC).

i. Foundation Courses (FC) are further categorized as


- a. BSH (Basic Sciences, Humanities and Social Sciences),
- b. ES (Engineering Sciences).

ii. Core Courses (CC) and Elective Courses (EC) are categorized as PS (Professional Subjects),

which are further subdivided as

- a. PC (Professional/Departmental Core) subjects,
- b. PE (Professional/Departmental Elective)




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

III B.TECH. - I SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	19BCI5TH01	Operating Systems	PC	40	60	100	3	-	-	3
2	19BIT5TH03	Design and Analysis of Algorithms	PC	40	60	100	3	-	-	3
3	19BIT5TH04	Software Engineering	PC	40	60	100	3	-	-	3
4	19BIT5TH05	Cryptography and Network Security	PC	40	60	100	3	-	-	3
5	19BIT5TH08	Web Development Using MEAN Stack	PC	40	60	100	3	-	-	3
6	19BCI5TH06	<u>Professional Elective - I</u> a. Data warehousing and Data Mining. b. Compiler Design c. Software Requirements & Estimation d. Microprocessors and Multicore systems	PE	40	60	100	3	-	-	3
	19BCI5TH02									
	19BIT5TH09									
	19BCI5TH07									
7	19BIT5LB01	Mobile Application Development Lab	PC	20	30	50	-	-	3	1.5
8	19BIT5LB02	Web Development Using MEAN Stack Lab	PC	20	30	50	-	-	3	1.5
9	19BIT5LB03	P E - I Lab	HS	20	30	50	-	-	3	1.5
10	19BIT5LB04	UML Lab	PC	20	30	50	-	-	3	1.5
11	19BCC5MC01	Advanced Communication Skills	MC	-	-	-	3	-	-	0
TOTAL										24

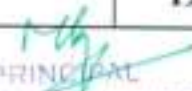


PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET - 522 601
 Guntur (Dist.), A.P.

III B.TECH. - II SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	19BIT6TH02	Artificial Intelligence and Machine Learning	ES	40	60	100	3	-	-	3
2	19BIT6TH03	Block chain Technologies	PC	40	60	100	3	-	-	3
3	19BCC6TH01	Entrepreneurship and Innovation	HS	40	60	100	2	-	-	2
4	Open Elective - II		OE	40	60	100	3	-	-	3
5	19BIT6PE04	Professional Elective - II a. Big Data Analytics b. Computer Graphics c. Software Project Management d. Advanced Computer Architecture	PE	40	60	100	3	-	-	3
	19BIT6PE05									
	19BIT6PE06									
	19BIT6PE07									
6	19BIT6LB01	AI and ML Lab	ES	20	30	50	-	-	3	1.5
7	19BIT6LB02	P E - II Lab	PC	20	30	50	-	-	3	1.5
8	19BIT6LB03	R Programming Lab	PC	20	30	50	-	-	3	1.5
9	19BIT6MP	Mini Project	PR	20	30	50	-	-	2	1
TOTAL										19.5




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

OPEN ELECTIVE-II

S.No.	Open Elective-II Subject Title	Department Offering the Subject	Sub Code	No.of periods per week			No.of Credits
				L	T	P	C
1	Disaster Management	CE	19BCC5OE01	3	0	0	3
2	Green Building & Sustainability	CE	19BCC5OE02	3	0	0	3
3	Non-Conventional Energy Resources	EEE	19BCC5OE03	3	0	0	3
4	Basics in Electrical and Electronics Engineering (Other than EEE)	EEE	19BCC5OE04	3	0	0	3
5	Work study	ME	19BCC5OE05	3	0	0	3
6	Mechatronics	ME	19BCC5OE06	3	0	0	3
7	Fundamentals of Image Processing (Other than ECE)	ECE	19BCC5OE07	3	0	0	3
8	Consumer Electronics	ECE	19BCC5OE08	3	0	0	3
9	Artificial Intelligence	CSE	19BCC5OE09	3	0	0	3
10	OOPS through JAVA	CSE	19BCC5OE10	3	0	0	3
11	Object Oriented Programming through C++	IT	19BCC5OE11	3	0	0	3
12	Cloud Computing	IT	19BCC5OE12	3	0	0	3
13	Digital Marketing	MBA	19BCC5OE13	3	0	0	3
14	Personal Finance Planning	MBA	19BCC5OE14	3	0	0	3





 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET - 522 601
 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 Algorithms	PC	3	0	0	3
5	Program Elective-1		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-1 (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	2	1
Total				15	0	10	20





 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						
	R20MCA304	Cloud Computing					
	R20MCA305	Digital Image Processing					
	R20MCA306	Internet of Things					
	R20MCA307	Unified Modeling Language	PE	3	0	0	3
	R20MCA3MC	MOOCs-2 (NPTEL/SWAYAM/ COURSERA) Any recommended course					
5	R20MCA308	Human Resource Management	MS	3	0	0	3
6	R20MCA3L1	Machine Learning with Python Lab	PC	0	0	4	2
7	R20MCA3L2	Web Technologies 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




 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPETA - 522 501
 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 technology					
	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



IQAC


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

DEPARTMENT OF MBA

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

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.

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



DEPARTMENT OF MBA

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

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

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


IQAC


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

DEPARTMENT OF MBA

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-VII (SPL-II)	4	0	-	40	60	100	4
6		Elective-VIII (SPL-II)	4	0	-	40	60	100	4
7	19MBA4PW01	Major Project/ Comprehensive Viva-Voce	-	-	-	-	-	-	8
TOTAL			24	0	0	240	360	600	32


FINANCE ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
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
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




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MARKETING ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
IV	19MBA4THM1	Service 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

SYSTEM ELECTIVES

Sem	Course Code	Subject	L	T	P	Internal Marks	External Marks	Total Marks	Credits
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


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