

**GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

**Approved by AICTE, Accredited by NBA & NAAC 'A' Grade, Recognized under 2(f) and 12(b) of UGC,
Permanently Affiliated to JNTUK, Kakinada
NH-16, Chaitanya Knowledge City, Rajahmundry – 533296. E.G.Dt., - AP.**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
4 YEARS B.TECH COURSE STRUCTURE
(2017-18)**

COURSE STRUCTURE

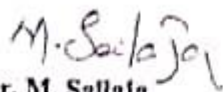
B. Tech. Electronics and Communication Engineering

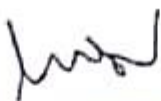
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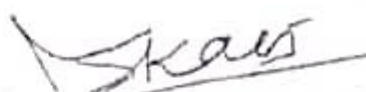
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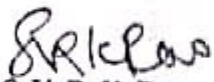
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1.	17199101	English – I	4	1	-	3	40	60	100
2.	17199102	Mathematics – I	4	1	-	3	40	60	100
3.	17199103	Computer programming.	4	1	-	3	40	60	100
4.	17199104	Engineering Drawing	4	1	-	3	40	60	100
5.	17195105	Mathematics –II	4	1	-	3	40	60	100
6.	17199106	Professional Ethics and Human Values	2	-	-	1	40	60	100
7.	17199111	English Communication Skills Lab-I	-	-	3	2	50	50	100
8.	17195112	Computer Programming Lab	-	-	3	2	50	50	100
9.	17199183	Engineering workshop and IT workshop		-	3	2	50	50	100
Total			22	5	9	22	390	510	900

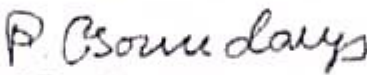
L- LECTURE T- TUTORIAL P – PRACTICAL C – CREDITS Int. – INTERNAL Ext. - EXTERNAL


Dr. M. Sallaja
(University Nominee)


Dr. K.V.Sreedhar (Subject Expert)

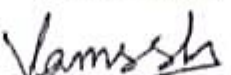

Dr. K. Murali Krishna
(Industry Expert)

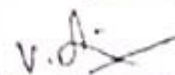

Dr. S. V. R. K. Rao
(Chairman, BOS)


Ms. P. Soundarya Mala
(BOS Member)


Mr. G. V. Vinod
(BOS Member)


Mr. Biswaranjan Barik
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Mr. S. Yamini Krishna
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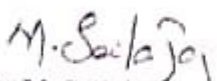
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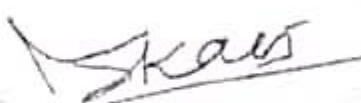
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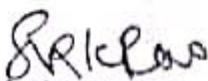
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			L	T	P		Int.	Ext.	Total
1.	17199201	English – II	4	1	-	3	40	60	100
2.	17199202	Engineering Physics	4	1	-	3	40	60	100
3.	17199203	Mathematics – III	4	1	-	3	40	60	100
4.	17195204	Data structures	4	1	-	3	40	60	100
5.	17199205	Environmental Studies	4	1	-	3	40	60	100
6.	17199211	English Communication Skills Lab-II	-	-	3	2	50	50	100
7.	17199212	Engineering Physics Lab	-	-	3	2	50	50	100
8.	17195213	Data structures Lab	-	-	3	2	50	50	100
Total			20	5	9	21	390	510	800

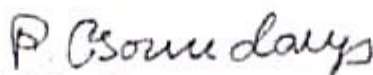
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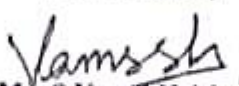

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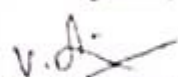

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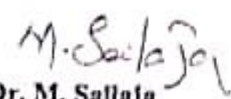
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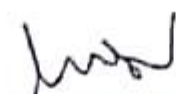
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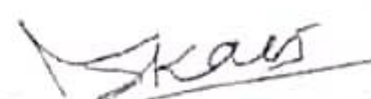
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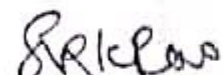
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			L	T	P		Int.	Ext.	Total
1.	17149301	Managerial Economics & Financial Analysis	4	1	-	3	40	60	100
2.	17142302	Network Analysis	4	1	-	3	40	60	100
3.	17142303	Electrical Technology	4	1	-	3	40	60	100
4.	17140304	Electronic Devices and Circuits	4	1	-	3	40	60	100
5.	17140305	Switching Theory and Logic Design	4	1	-	3	40	60	100
6.	17140306	Signals & Systems	4	1	-	3	40	60	100
7.	17149397	Soft skills – I	1	-	2	1	40	60	100
8.	17142311	Networks & Electrical Technology Lab	-	-	3	2	50	50	100
9.	17140312	Electronic Devices and Circuits Lab	-	-	3	2	50	50	100
Total			25	6	8	23	380	520	900

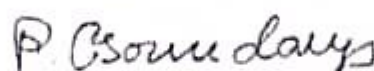
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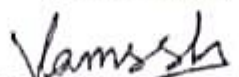

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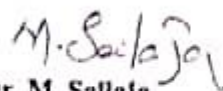
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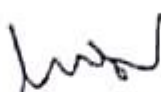
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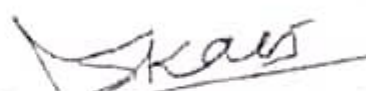
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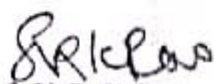
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			L	T	P		Int.	Ext.	Total
1.	17149401	Random Variable and Stochastic Process	4	1	-	3	40	60	100
2.	17142402	Control Systems	4	1	-	3	40	60	100
3.	17140403	Electronic Circuits Analysis	4	1	-	3	40	60	100
4.	17140404	EM Waves and Transmission Lines	4	1	-	3	40	60	100
5.	17140405	Pulse and Digital Circuits	4	1	-	3	40	60	100
6.	17140406	Analog Communication	4	1	-	3	40	60	100
7.	17140411	Electronic Circuits Analysis Lab	-	-	3	2	50	50	100
8.	17140412	Pulse and Digital Circuits Lab	-	-	3	2	50	50	100
9.	17140413	Analog Communication Lab	-	-	3	2	50	50	100
Total			24	6	9	24	340	460	900

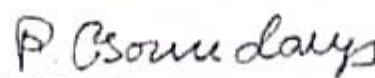
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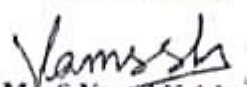

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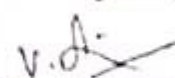

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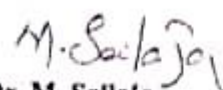
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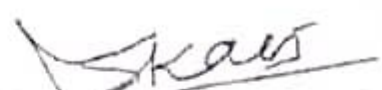
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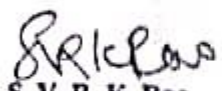
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			L	T	P		Int.	Ext.	Total
1.	17149501	Management Science	4	1	-	3	40	60	100
2.	17145502	Computer Architecture & Organization	4	1	-	3	40	60	100
3.	17140503	Linear IC Applications	4	1	-	3	40	60	100
4.	17140504	Digital System Design & Digital IC Applications	4	1	-	3	40	60	100
5.	17140505	Antenna and Wave Propagation	4	1	-	3	40	60	100
6.	17140505	Digital Communications	4	1	-	3	40	60	100
7.	17149596	Soft skills – II	1	-	2	1	40	60	100
8.	17140511	Digital System Design & DICA Lab	-	-	3	2	50	50	100
9.	17140512	Linear IC Applications Lab	-	-	3	2	50	50	100
10.	17140513	Digital Communications Lab	-	-	3	2	50	50	100
11.	17140544	Mini Project-I	-	3	-	2	10 0	-	100
Total			25	6	8	27	530	570	1100

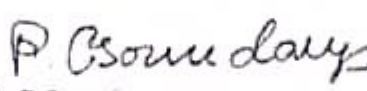
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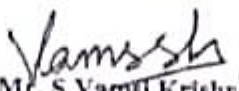

Dr. K. Murali Krishna
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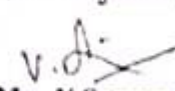

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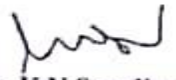

Mr. V. Sreevani
(BOS Member)

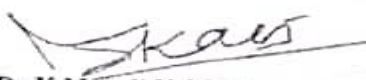
III Year

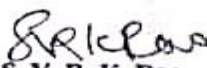
II Semester

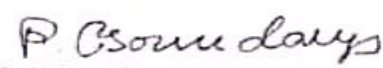
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			L	T	P		Int.	Ext.	Total
1.	17140601	Computer Networks	4	1	-	3	40	60	100
2.	17140602	Microprocessors and Microcontrollers	4	1	-	3	40	60	100
3.	17140603	Digital Signal Processing	4	1	-	3	40	60	100
4.	17140604	Electronic Measurements and Instrumentation	4	1	-	3	40	60	100
5.	17140605	Microwave Engineering	4	1	-	3	40	60	100
6.	17141666a	Open Elective Environmental Pollution and Control	4	1	-	3	40	60	100
	17141666b	Building Technology							
	17142666a	Renewable Energy Sources and Systems							
	17143666a	Robotics							
	17145666a	Social Network Analysis							
	17147666a	Hybrid Vehicles							
	17149666a	Principles of Management							
7.	17140611	Micro Processor and Micro Controllers Lab	-	-	3	2	50	50	100
8.	17140612	Digital Signal Processing Lab	-	-	3	2	50	50	100
9.	17140631	Seminar	4	-	-	1	50	-	50
Total			28	6	9	23	390	460	850


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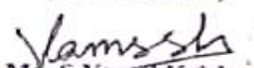

Dr. K. Murali Krishna
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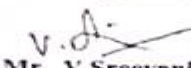

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COURSE STRUCTURE

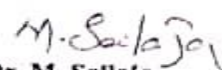
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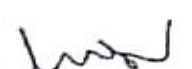
IV Year

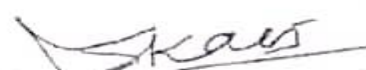
I Semester

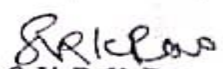
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17140701	VLSI	4	1	-	3	40	60	100
2.	17140702	Radar Systems	4	1	-	3	40	60	100
3.	17140703	Optical Communication	4	1	-	3	40	60	100
4.	17140704	Digital Image processing	4	1	-	3	40	60	100
5.	17140765a	Elective- I Telecommunication Switching Systems and Networks	4	1	-	3	40	60	100
	17145765b	DSP Processors and Architectures							
	17140765c	Network Security And Cryptography							
	17140765d	Analog IC Design							
6.	17140766a	Elective- II Speech Processing	4	1	-	3	40	60	100
	17140766b	Embedded System Design							
	17140766c	Artificial Neural Network & Fuzzy Logic							
	17140766d	Digital IC Design							
7.	17149707	Intellectual Property Rights and Patents	4	-	-	1	40	60	100
8.	17140711	VLSI Lab	-	-	3	2	50	50	100
9.	17140712	Microwave & Optical Communication Lab	-	-	3	2	50	50	100
10	17140749	Mini Project-II	-	-	-	2	100	-	100
Total			28	6		25	480	520	1000

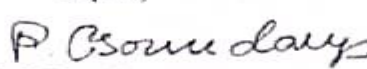
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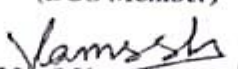

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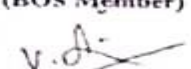

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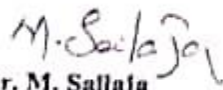
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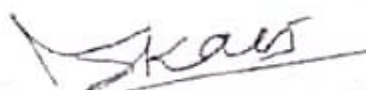
II Semester

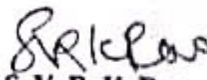
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.	17140801	Cellular and Mobile Communications	4	-	-	3	40	60	100
2.	17140862a	Elective- III Wireless Sensors and Networks	4	-	-	3	40	60	100
	17140862b	Mixed Signal Design							
	17140862c	EMI/EMC							
	17140862d	Real time Operating Systems							
3.	17140831	Project & Seminar	-	-	-	9	60	140	200
Total			8			15	140	260	400

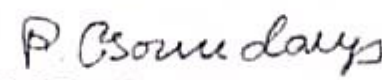
L- LECTURE T- TUTORIAL P – PRACTICAL C – CREDITS Int. – INTERNAL Ext. – EXTERNAL


Dr. M. Sallaja
(University Nominee)


Dr. K.V.Sreedhar (Subject Expert)

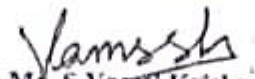

Dr. K. Murali Krishna
(Industry Expert)

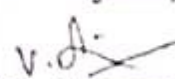

Dr. S. V. R. K. Rao
(Chairman, BOS)


Ms. P. Soundarya Mala
(BOS Member)


Mr. G. V. Vinod
(BOS Member)


Mr. Biswaranjan Barik
(BOS Member)


Mr. S. Yamini Krishna
(BOS Member)


Mr. V. Sreevani
(BOS Member)

LIST OF ELECTIVES

Open Electives:

Sl. No	Subject Code	Subject Name
1	17141666a	Environmental Pollution and Control
2	17141666b	Building Technology
3	17142666a	Renewable Energy Sources and Systems
4	17143666a	Robotics
5	17145666a	Social Network Analysis
6	17147666a	Hybrid Vehicles
7	17149666a	Principles of Management

Department Elective I:

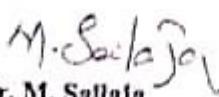
Sl. No	Subject Code	Subject Name
1	17140765a	Telecommunication Switching Systems and Networks
2	17145765b	DSP Processors and Architectures
3	17140765c	Network Security And Cryptography
4	17140765d	Analog IC Design

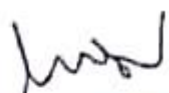
Department Elective II:

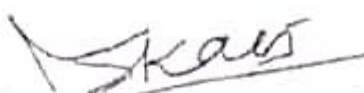
Sl. No	Subject Code	Subject Name
1	17140766a	Speech Processing
2	17140766b	Embedded System Design
3	17140766c	Artificial Neural Network & Fuzzy Logic
4	17145766d	Digital IC Design

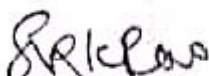
Department Elective III:

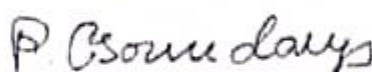
Sl. No	Subject Code	Subject Name
1	17140863a	Wireless Sensors and Networks
2	17140863b	Mixed Signal Design
3	17140863c	EMI/EMC
4	17140863d	Real time Operating Systems


Dr. M. Sallaja
(University Nominee)


Dr. K.V.Sreedhar (Subject
Expert)

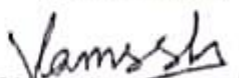

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