



1.2.2 Number of Add on /Certificate programs offered during the last five years

SUMMARY REPORT

S. No.	Name of Add on /Certificate programs offered	Year of offering	Duration of Course
1.	Analog Electronic circuits	2020-2021	34 Hrs
2	Embedded C	2020-2021	38 Hrs
3	PCB Designing	2020-2021	48 Hrs
4	One Week Professional Development Program on Principles Of Signal Estimation For OFDM/MIMO Wireless Communication	2020-2021	32 Hrs
5	One Week certificate Program on Programming In Python	2020-2021	32 Hrs
6	Rock engineering	2020-2021	34 Hrs
7	GIS and Remote Sensing Essentials	2020-2021	30 Hrs
8	Advanced Surveying	2020-2021	34 Hrs
9	One Week certificate Program on Ground improvement	2020-2021	32 Hrs
10	One Week certificate Program on Introduction to multi modal urban transportation	2020-2021	32 Hrs
11	Introduction to internet of things	2020-2021	32 Hrs
12	Introduction to Blockchain Technology and Applications	2020-2021	42 Hrs
13	Python Programming	2020-2021	42 Hrs
14	One Week certificate Program on Bigdata Analytics	2020-2021	32 Hrs
15	One Week certificate Program on ANN	2020-2021	32 Hrs
16	Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink	2020-2021	32 Hrs

  
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17	Introduction to smart grid	2020-2021	32 Hrs
18	Advances in UHV transmission and distribution	2020-2021	42 Hrs
19	One Week Professional Development Program on Neural Networks for Signal Processing – I	2020-2021	32 Hrs
20	One Week certificate Program on Applied Optimization for Wireless, Machine Learning, Big Data	2020-2021	32 Hrs
21	Information Technology for Management	2020-2021	36 Hrs
22	Global Business Strategies	2020-2021	48 Hrs
23	One Week certificate Program on SUPPLY CHAIN MANAGEMENT	2020-2021	32 Hrs
24	One Week certificate Program on MARKETING ENGINEERING	2020-2021	32 Hrs
25	Fundamentals of semiconductor devices	2019-2020	42 Hrs
26	Integrated Circuits, MOSFETs, OP-Amps and their Applications	2019-2020	38 Hrs
27	CMOS Digital VLSI Design	2019-2020	46 Hrs
28	One Week Professional Development Program on Principles Of Modern Radar Systems	2019-2020	32 Hrs
29	One Week Professional Development Program on Evolution Of Air Interface Towards 5G	2019-2020	32 Hrs
30	Land and water management engineering	2019-2020	32 Hrs
31	GIS and Remote Sensing	2019-2020	32 Hrs
32	Hydraulics Machines	2019-2020	36 Hrs
33	One Week certificate Program on River engineering	2019-2020	32 Hrs
34	One Week certificate Program on Theory of elasticity	2019-2020	32 Hrs
35	Introduction to Blockchain Technology and	2019-2020	36 Hrs



	Applications		
36	Introduction to internet of things	2019-2020	32 Hrs
37	Data Analytics with Python	2019-2020	36 Hrs
38	One Week certificate Program on Machine Learning	2019-2020	32 Hrs
39	One Week certificate Program on Deep learning	2019-2020	32 Hrs
40	Fundamentals of semiconductor devices	2019-2020	32 Hrs
41	Recent Advances in Transmission Insulator	2019-2020	32 Hrs
42	Electric Vehicles	2019-2020	42 Hrs
43	One Week Professional Development Program on Transmission lines and electromagnetic waves	2019-2020	32 Hrs
44	One Week Professional Development Program on Design and Simulation of Power conversion using open source tools	2019-2020	32 Hrs
45	Research For Marketing Decisions	2019-2020	42 Hrs
46	Business Intelligence	2019-2020	38 Hrs
47	One Week certificate Program on BUSINESS INTELLEGENGE	2019-2020	32 Hrs
48	One Week certificate Program on TOTAL QUALITY MANAGEMENT	2019-2020	32 Hrs
49	Digital circuits	2018-2019	32 Hrs
50	Principles of Signals and Systems	2018-2019	44 Hrs
51	Microwave Theory and Techniques	2018-2019	46 Hrs
52	One Week Professional Development Program on Digital Voice and Picture Communication	2018-2019	32 Hrs
53	One Week certificate Program on Signal	2018-2019	32 Hrs





	Processing Techniques And Applications		
54	Irrigation Engineering	2018-2019	30 Hrs
55	Environmental Impact Assessment And Management	2018-2019	32 Hrs
56	One Week certificate Program on Repair and maintain of building	2018-2019	32 Hrs
57	One Week certificate Program on Sustainable transportation systems	2018-2019	32 Hrs
58	Introduction to Block chain Technology and Applications	2018-2019	36 Hrs
59	Data Analytics with Python	2018-2019	32 Hrs
60	Python for Data Science	2018-2019	32 Hrs
61	One Week certificate Program on CNN	2018-2019	32 Hrs
62	One Week certificate Program on python for ANN	2018-2019	32 Hrs
63	Electronic modules for industrial applications using op amps	2018-2019	32 Hrs
64	Introduction to smart grid	2018-2019	32 Hrs
65	Power Quality Improvement Technique	2018-2019	38 Hrs
66	One Week Professional Development Program on Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	2018-2019	32 Hrs
67	One Week certificate Program on Design for internet of things	2018-2019	32 Hrs
68	E- Business	2018-2019	32 Hrs
69	One Week certificate Program on RESEARCH MARKETING FOR DECISIONS	2018-2019	32 Hrs

  
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70	One Week certificate Program on INNOVATION MANAGEMENT	2018-2019	32 Hrs
71	Microelectronics: Devices to Circuits	2017-2018	39 Hrs
72	Pattern Recognition and Application	2017-2018	42 Hrs
73	Digital VLSI Testing	2017-2018	45 Hrs
74	One Week Professional Development Program on Interconnects In VSLI	2017-2018	32 Hrs
75	One Week certificate Program on Programming in Java	2017-2018	32 Hrs
76	Maintenance of building	2017-2018	32 Hrs
77	One Week certificate Program on Municipal solid waste management	2017-2018	32 Hrs
78	One Week certificate Program on Advance in earth quake	2017-2018	32 Hrs
79	Introduction to internet of things	2017-2018	42 Hrs
80	Python Programming	2017-2018	42 Hrs
81	Python for Data Science	2017-2018	32 Hrs
82	One Week certificate Program on Block chain technology	2017-2018	32 Hrs
83	One Week certificate Program on crypto theory	2017-2018	32 Hrs
87	Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink	2017-2018	32 Hrs
85	Recent Advances in Transmission Insulator	2017-2018	32 Hrs
86	One Week Professional Development Program on Op-Amp Practical Applications: Design, Simulation and Implementation	2017-2018	32 Hrs
87	One Week certificate Program on Mathematical Methods and Techniques in Signal Processing	2017-2018	32 Hrs
88	Innovation Management	2017-2018	35 Hrs

  
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89	One Week certificate Program on BUSINESS POLICY AND STRATEGY	2017-2018	32 Hrs
90	One Week certificate Program on E-BUSINESS	2017-2018	32 Hrs
91	Principles of electrical technology	2016-2017	38 Hrs
92	Op-Amp Practical Applications: Design, Simulation and Implementation	2016-2017	34 Hrs
93	Mapping Signal Processing Algorithms to Architectures	2016-2017	36 Hrs
94	One Week certificate Program on Advance Antenna Theory	2016-2017	32 Hrs
95	One Week certificate Program on Error Correcting Codes	2016-2017	32 Hrs
96	Introduction to Blockchain Technology and Applications	2016-2017	42 Hrs
97	Software Testing Tools	2016-2017	32 Hrs
98	Machine Learning	2016-2017	32 Hrs
99	One Week certificate Program on Cloud computing	2016-2017	32 Hrs
100	One Week certificate Program on quantum computing	2016-2017	32 Hrs
101	Electronic modules for industrial applications using op amps	2016-2017	32 Hrs
102	Electric Vehicles	2016-2017	42 Hrs
103	One Week certificate Program on Industrial Automation and Control	2016-2017	32 Hrs
104	One Week certificate Program on Electrical Equipment and Machines: Finite Element Analysis	2016-2017	32 Hrs
105	Total Quality Management	2016-2017	32 Hrs

  
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106	One Week certificate Program on quantum computing	2016-2017	32 Hrs
107	One Week certificate Program on BUSINESS RESEARCH METHODS	2016-2017	32 Hrs

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Department of Electronics and Communication Engineering

Progress Report for Academic Year 2020-2021

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Analog Electronic circuits	34	42	38
III	Embedded 'C'	38	32	26
IV	PCB Design	48	38	31



  
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## Department of CIVIL Engineering

### Progress Report for Academic Year 2020-2021

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Rock engineering	34 Hrs	22	18
III	GIS and Remote Sensing Essentials	30 Hrs	49	42
IV	Advanced Surveying	34 Hrs	21	18

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**Department of Electrical and Electronics Engineering**

**Progress Report for Academic Year 2020-2021**

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
III	Introduction to smart grid	30 Hrs	24	20

  
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## Department of Electrical and Electronics Engineering

### Progress Report for Academic Year 2020-2021

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink	30Hrs	22	20

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**Department of Electrical and Electronics Engineering**

**Progress Report for Academic Year 2020-2021**

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
IV	Advances in UHV transmission and distribution	32Hrs	15	12

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**Department of Business Management**

**Progress Report for Academic Year 2020-2021**

Academic Year	Add On Course	Duration Of Course In Hours	Number Of Students Enrolled	Number Of Students Completed
II	Global Business Strategies	48	41	32

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**Department of Business Management**

**Progress Report for Academic Year 2020-2021**

Academic Year	Add On Course	Duration Of Course In Hours	Number Of Students Enrolled	Number Of Students Completed
I	Information Technology for Management	36	33	26

  
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## Department of Electronics and Communication Engineering

### Progress Report for Academic Year 2019-2020

ACADEMIC YEAR	ADD ON COURSE	Name of the faculty participated in design and development of add on course	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Fundamentals of semiconductor devices	Miss.T.Navya	42	32	25
III	Integrated Circuits, MOSFETs, OP-Amps and their Applications	Mr.D.Ramesh	38	38	29
IV	CMOS Digital VLSI Design	Mrs B.Sirisha	46	70	61

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**Department of CIVIL Engineering**

**Progress Report for Academic Year 2017-2018**

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Maintenance of Building	32 Hrs	18	14

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**Department of Electronics and Communication Engineering**

**Progress Report for Academic Year 2016-2017**

ACADEMIC YEAR	ADD ON COURSE	Duration of course In hours	Number of students enrolled	Number of Students completed
II	Principles of electrical technology	38	30	24
III	Op-Amp Practical Applications: Design, Simulation and Implementation	34	20	17
IV	Mapping Signal Processing Algorithms to Architectures	36	86	78

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1.2.2 Number of Add on /certificate programs offered during the last years (10)

## FEEDBACK FORM STUDENTS

Name of the Department: Civil Engineering

Date: 08/08/21

Academic Year : 2020-2021

Class: II-II

Add on program Name : Rock Engineering

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me			✓		
2	The information given was easily understood					✓
3	The add on Course was very useful					✓
4	The information given was very interesting				✓	
5	I got a lot of knowledge from this				✓	

Rating Scale : Excellent-5, Very Good-4, Good-3, Average-2, Poor-1

Any other comments:

These subject give very good knowledge in study of Rock.

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1.2.2 Number of Add on /certificate programs offered during the last years (10)

## FEEDBACK FORM STUDENTS

Name of the Department: Civil Engineering

Date: 8/8/21

Academic Year : 2020-2021

Class: II-II

Add on program Name : Rock Engineering

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood			✓		
3	The add on Course was very useful					✓
4	The information given was very interesting				✓	
5	I got a lot of knowledge from this					✓
Rating Scale : Excellent-5, Very Good-4, Good-3, Average-2, Poor-1						

Any other comments:

This subject taught us good knowledge in study of Rocks. I learn new things by this subject.

  
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1.2.2 Number of Add on /certificate programs offered during the last years (10)

## FEEDBACK FORM STUDENTS

Name of the Department : Civil Engineering

Date : 07-08-2021

Academic Year : 2020-2021

Class : III-II

Add on program Name : GIS and Remote sensing essentials.

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me					✓
2	The information given was easily understood					✓
3	The add on Course was very useful				✓	
4	The information given was very interesting			✓		
5	I got a lot of knowledge from this		✓			
Rating Scale : Excellent-5, Very Good-4, Good-3, Average-2, Poor-1						

Any other comments:

The courses which we have learnt were very useful to us and I understood easily.

  
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1.2.2 Number of Add on /certificate programs offered during the last years (10)

## FEEDBACK FORM STUDENTS

Name of the Department : Civil Engineering

Date : 07-08-2021

Academic Year : 2020-2021

Class : III-II

Add on program Name : GIS and Remote sensing essentials.

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood					✓
3	The add on Course was very useful				✓	
4	The information given was very interesting					✓
5	I got a lot of knowledge from this		✓			
Rating Scale : Excellent-5, Very Good-4, Good-3, Average-2, Poor-1						

Any other comments:

The courses which we have learnt was very useful to us and I understood easily.

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1.2.2 Number of Add on /certificate programs offered during the last years (10)

FEEDBACK FORM STUDENTS

Name of the Department : Civil Engineering

Date :

Academic Year : 2020-2021

Class :

Add on program Name : Advanced Surveying.

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me			✓		
2	The information given was easily understood				✓	
3	The add on Course was very useful					✓
4	The information given was very interesting					✓
5	I got a lot of knowledge from this					✓

Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1

Any other comments:

New things and unknown things were taught by this subject which were kbbere usefull for ~~at~~ my future.

  
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1.2.2 Number of Add on /certificate programs offered during the last years (10)

FEEDBACK FORM STUDENTS

Name of the Department : Civil Engineering

Date :

08/08/21

Academic Year : 2020-2021

Class :

IV/A

Add on program Name : Advanced Surveying.

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood			✓		
3	The add on Course was very useful					✓
4	The information given was very interesting				✓	
5	I got a lot of knowledge from this					✓
Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1						

Any other comments:

The subject Advanced Surveying is very good.  
It gives us lot of knowledge.

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1.2.2 Number of Add on /certificate programs offered during the last years (10)

**FEEDBACK FORM STUDENTS**

Name of the Department : **Civil Engineering**

Date : *08/04/2018*

Academic Year : **2017-2018**

Class : *II/II*

Add on program Name : **Maintenance of Building.**

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me			<i>✓</i>		
2	The information given was easily understood				<i>✓</i>	
3	The add on Course was very useful					<i>✓</i>
4	The information given was very interesting					<i>✓</i>
5	I got a lot of knowledge from this					<i>✓</i>
Rating Scale : Excellent-5, Very Good-4, Good-3, Average-2, Poor-1						

Any other comments:

*I learned a lot of new topics and was taught very interestingly.*

*[Signature]*  
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1.2.2 Number of Add on /certificate programs offered during the last years

### FEEDBACK FROM STUDENTS

Name of the Department : CSE

Date:

Academic Year :2020-2021

Year-sem:III-II


Add on program Name : Introduction to Blockchain Technology and Applications

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood					✓
3	The add on Course was very useful			✓		
4	The information given was very interesting				✓	
5	I got a lot of knowledge from this					✓

Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

### FEEDBACK FROM STUDENTS

Name of the Department : CSE

Date:

Academic Year :2020-2021

Year-sem:III-II

Add on program Name : Introduction to Blockchain Technology and Applications

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me			✓		
2	The information given was easily understood				✓	
3	The add on Course was very useful			✓		
4	The information given was very interesting					✓
5	I got a lot of knowledge from this				✓	

Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2,Poor-1

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

## FEEDBACK FROM STUDENTS

Name of the Department : EEE

Date:29/07/2021

Academic Year :2020-2021

Year-sem:III-II

Add on program Name : Introduction to smart grid

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood					✓
3	The add on Course was very useful			✓		
4	The information given was very interesting					✓
5	I got a lot of knowledge from this				✓	
Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2,Poor-1						

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

## FEEDBACK FROM STUDENTS

Name of the Department : EEE

Date:28/07/2021

Academic Year : 2020-2021

Year-sem: II-II

Add on program Name : Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me					✓
2	The information given was easily understood				✓	
3	The add on Course was very useful				✓	
4	The information given was very interesting				✓	
5	I got a lot of knowledge from this				✓	
Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2,Poor-1						

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

## FEEDBACK FROM STUDENTS

Name of the Department : EEE

Date:26/07/2021

Academic Year :2020-2021

Year-sem:IV-II


Add on program Name : Advances in uhv transmission and distribution

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me		✓			
2	The information given was easily understood			✓		
3	The add on Course was very useful	✓				
4	The information given was very interesting		✓			
5	I got a lot of knowledge from this				✓	

Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2,Poor-1

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

### FEEDBACK FROM STUDENTS

Name of the Department: MBA

Date:

Academic Year: 2020-2021

Year-sem:II

Add on program Name : Global Business Strategies

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me			✓		
2	The information given was easily understood					✓
3	The add on Course was very useful			✓		
4	The information given was very interesting					✓
5	I got a lot of knowledge from this		✓			
Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1						

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

### FEEDBACK FROM STUDENTS

Name of the Department: MBA

Date: 21/7/21

Academic Year : 2020-2021

Year-sem:I

Add on program Name : Information Technology for Management

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood			✓		
3	The add on Course was very useful					✓
4	The information given was very interesting			✓		
5	I got a lot of knowledge from this				✓	
Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1						

Any other comments:

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1.2.2 Number of Add on /certificate programs offered during the last years

### FEEDBACK FROM STUDENTS

Name of the Department : CSE

Date: 1-9-18

Academic Year :2018-2019

Year-sem: II-I

Add on program Name : Introduction to Block chain Technology and Applications

S.NO	Parameters	1	2	3	4	5
1	New things were taught to me which were unknown to me				✓	
2	The information given was easily understood					✓
3	The add on Course was very useful					✓
4	The information given was very interesting					✓
5	I got a lot of knowledge from this					✓

Rating Scale : Excellent-5, Very Good-4, Good-3, Avarage-2, Poor-1

Any other comments:

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# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Approved by AICTE & Affiliated to JNTUH)

SY. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301

## DEPARTMENT OF CIVIL ENGINEERING

### VALUE ADDED COURSE

Date: 22/03/2021


### CIRCULAR

It is hereby informed to B.Tech CIVIL ENGINEERING students that the classes will be conducted for the add on/value added courses for the academic year 2020-2021 for the regulation R18. Hence requesting all students to register the following for add on course.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	CIVIL	II	Rock Engineering
2	B.Tech	CIVIL	III	Geographical information system and Remote sensing
3	B.Tech	CIVIL	IV	Advanced Surveying

  
Training In-Charge



  
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**MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**B. TECH CLASS:II YEAR II SEM TIME TABLE**  
**(2020-2021) W.E.F 22/03/2021**

Class in charge: B.HARISH

DAY /TIME	1	2	3	4	LUNCH	5	6	7
	9:30-10:20	10:20-11:10	11:20-12:10	12:10-01:00		1:00-1:30	1:30:-2:20	2:20-3:10
MON	BMCP	BEE		HHM	LUNCH	SM II		COUN
TUE	BMCP	SM II		SEMINAR		CAD LAB		
WED	BME		SA I			BMCP	RE	
THU	CO-CUR		HHM			BEE LAB		
FRI	LIB	SA I				GS LAB		
SAT	SPORTS	BMCP	HHM			HHM LAB		

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
EE409ES	Basic Electrical and Electronics Engineering(BEE)	G.SANTOSH KUMAR
CE402ES	Basic Mechanical Engineering for Civil Engineers(BME)	B.SAI VENKATA KRISHNA
CE403PC	Building Materials, Construction and Planning(BMCP)	B.HARISH
CE404PC	Strength of Materials – II (SM-II)	MA.AZEEM
CE405PC	Hydraulics and Hydraulic Machinery (HHM)	A.CHANDRA KANTH YADAV
CE406PC	Structural Analysis – I (SA-I)	M.SUNITHA
CE407PC	Computer aided Civil Engineering Drawing (CAD LAB)	B.SUDHAKAR
EE409ES	Basic Electrical and Electronics Engineering Lab (BEE LAB)	G SANTOSH KUMAR
CE409PC	Hydraulics and Hydraulic Machinery Lab (HHM LAB)	D.NAGARAJU
MC409	Gender Sensitization Lab (GS LAB)	P.MADHAVI
	Rock engineering (RE)s	D.RAJASHEKAR REDDY
CO-CUR	Co curricular activities	DEPT. FACULTY
SEMINAR	Seminar	DEPT. FACULTY
COUN	Counseling	P.MADHAVI

*Harish*  
CLASS INCHARGE

*B.*  
HOD.

*Principal*  
PRINCIPAL  
Principal



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**CIVIL ENGINEERING DEPARTMENT**

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**Additional course name: ROCK ENGINEERING**

This course is the basic course in the area of Rock Mechanics. This will provide the knowledge of overall behavior of rocks and rock masses. This course will enable the students to acquire basics of analysis and design of tunnels, caverns, slopes, and foundations on rocks. The point load test is widely used within geotechnical and rock engineering in the classification of rock. Due to the low cost and portability of the test unit, it is commonly used within the mining industry to classify intact rock strength for use in rock mass classification systems such as the Rock Mass Rating (RMR).

**COURSE Syllabus**

**UNIT-I :** Rock Formation: rock forming minerals, identification, geological classification of rock, geological structures, faults, folds, joints. Stereographic Project of Geological Data: Principle of equal area net, representation of a line, plane, intersection of two planes, other applications.

**UNIT-II:** Laboratory Testing of Rocks: Determination of physical properties, uniaxial compressive strength test, tensile strength test, oblique shear test, triaxial test, slake durability test, stress-strain responses of rocks. Engineering Classification of Rocks & Rock Mass: Deere and Miller classification, concept of rock mass, rock quality designation, rock mass rating, rock mass quality, geological strength index and applications in civil engineering projects.

**UNIT-III:** Strength Criteria for Rocks & Rock Mass: Mohr-Coulomb criterion, Hoek and Brown criterion, Barton's theory. Tunneling: Ground conditions in tunneling, application of stereographic projections, elastic analysis under uniaxial, biaxial and hydrostatic conditions.

**UNIT-IV:** Concrete lining: elastic analysis, elasto-plastic analysis: Tresca criterion, rock mass-tunnel support interaction analysis, design of support system.

**UNIT-V:** Rock Slope Stability Analysis: Modes of failure, limit equilibrium approaches, application of stereographic projections, remedial measures. Foundations of Weak Rocks: Bell's approach, bearing capacity based on classification approaches, UCS, plate load test, special considerations, dam foundations.


  
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## Books and references

1. Goodman, RE (1989). Introduction to Rock Mechanics, Canada, John Wiley & Sons.
- Hoek, E and Bray, JW (1977). Rock Slope Engineering. The Institution of Mining and Metallurgy, London.
2. Hoek, E and Brown, ET (1988). Underground Excavations. Spon Press.
- Jaeger, JG, Cook, NGW and Zimmerman, RW (2007). Fundamentals of Rock Mechanics. 4th Ed., Singapore, Blackwell Publishing
3. Ramamurthy, T (2007). Engineering in Rocks for Slopes, Foundation and Tunnels. N. Delhi, PHI Pvt. Ltd.
- Singh, B and Goel RK (2011).
4. Engineering Rock Mass Classification. Oxford, UK, Elsevier Inc.
5. Sivakugan, N, Shukla, SK and Das, BM (2013). Rock Mechanics: an introduction. Boca Raton, FL, CRC Press.
6. Wyllie, DC and Mah CW (2004). Rock Slope Engineering, Civil and Mining. NY, Spon Press.

Course Syllabus prepared by \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

  
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**MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**B. TECH CLASS:III YEAR II SEM TIME TABLE**  
**(2020-2021) w.e.f 22/03/2021**

Class in charge: D. RAJA SHEKAR REDDY

DAY /TIME	1	2	3	4	LUNCH	5	6	7
	9:30-10:20	10:20-11:10	11:20-12:10	12:10-01:00		1:00-1:30	1:30:-2:20	2:20-3:10
MON	HWRE		CO-CUR		LUNCH	CAD LAB		
TUE	SE-II(DSS)		PSC	EE		HWRE		
WED	EE	COUN	SE-II(DSS)			FME	FE	
THU	FE	EE	GIS RS			EE LAB		
FRI	FME		EE	PSC		SEII		
SAT	LIB/SPORTS		HWRE	SEMINAR		ES		

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
CE601PC	HYDROLOGY WATER RESOURCE ENGINEERING ( HWRE)	P.MADHAVI
CE604PC	STRUCTURAL ENGINEERING-II ( SE-II)	MA AZEEM
CE603PC	FOUNDATION ENGINEERING ( FE)	G.SHIRISHA
CE611PE	PRE STRESSED CONCRETE ( PSC)	M.SUNITHA
CE602PC	ENVIRONMENTAL ENGINEERING ( EE)	M.PRIYANKA
CE601OE	FOUNDAMENTAL OF MANAGEMENT (FME)	HAFEEZ
MC609	ENVIRONMENTAL SCIENCE ( ES)	D. RAJA SHEKAR REDDY
CE606PC	COMPUTER AIDED DRAFTING ( CAD LAB)	B.SUDHAKAR
CE605PC	ENVIRONMENTAL ENGINEERING LAB (EE LAB)	M.PRIYANKA
	GIS AND REMOTE SENSING ESSENTIALS(GIS RS)	M.PRIYANKA
CO-CUR	CO-CURRICULAR ACTIVITIES	DEPT. FACULTY
COUN	COUNCELING	G.SHIRISHA
SEMINAR	SEMINAR	DEPT. FACULTY

CLASS IN CHARGE

HOD

PRINCIPAL

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CIVIL ENGINEERING DEPARTMENT

**Additional course name: GIS and Remote Sensing Essentials**

The proposed course provides basic understanding about satellite based Remote Sensing and Digital Image Processing technologies. Presently, remote sensing datasets available from various earth orbiting satellites are being used extensively in various domains including in civil engineering, water resources, earth sciences, transportation engineering, navigation etc. Google Earth has further made access to high spatial resolution remote sensing data available to non-experts with great ease. Knowledge of Digital Image Processing of satellite data allows to process raw satellite images for various applications.

This course will help students learn how to identify various deterioration mechanisms or damage mechanisms in concrete structures (say deterioration of metallic reinforcement and cementations materials). The course will discuss both the scientific aspects and its use while practicing repair works at site. Use of various non-destructive, partially-destructive tools to assess the condition of the structure will be discussed. Also, tips on selecting measurable parameters that are useful in deciding the further repair and maintenance practices will be provided. Following this, practices for typical near-surface repair, corrosion protection, structural strengthening, structural stabilization, etc. will be discussed in detail. At the end of the course students will be able to suggest evaluation and repair/retrofitting methods for extending the service life of concrete structures. Importance for preventive maintenance practices (instead of corrective maintenance practices) will be discussed throughout the coursework.

**COURSE Syllabus**

**UNIT-I :** Rudiments of remote sensing and advantages, Historical Perspective of development of remote sensing technology, EM spectrum, solar reflection and thermal emission, Interaction of EM radiation with atmosphere including atmospheric scattering, absorption and emission, Interaction mechanisms of EM radiation with ground, spectral response curves.

**UNIT-II: Laws** of Radiation and their relevance in Remote Sensing, Basis of remote sensing image representation, Various Remote Sensing Platforms, Multi-spectral scanners and imaging devices, significant characteristics of LANDSAT, SPOT, Sentinel sensors

**UNIT-III :** Prominent characteristics of IRS, Cartosat, Resource Sat sensors, Unmanned Aerial Vehicle / Drone, Passive Microwave Remote Sensing, Image characteristics and different resolutions in Remote Sensing, Different techniques of Image acquisition.

  
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**UNIT-IV** :Importance of digital image processing, Digital Image Processing Software, Basic image enhancement techniques, Colour representations and transforms, Image Histograms and statistic Atmospheric errors and corrections, Dereferencing Technique, Digital Image Processing Software – Demonstration-1, Image enhancement techniques –I, Image enhancement techniques –II Digital Image Processing Software – Demonstration-2, Spatial Filtering Techniques, Band rationing and PCA, Frequency Doman Fourier Transformation, Digital Image Processing Software – Demonstration-3, Unsupervised image classification and density slicing techniques

**UNIT-V**: Supervised image classification techniques and limitations Digital Image Processing Software – Demonstration-4 LiDAR Technique and applications Mosaic king, subsets, sub-sampling techniques and applications, False Topographic Phenomena and correction techniques.

### Books and references

1. Introduction to Remote Sensing”, (5th Ed.), The Guildford Press, New York, 2012.
2. Lillesand, T.M., Kiefer, R.W. and Chapman, J.W., “Remote Sensing and Image Interpretation”, (5th Ed.), John Wiley & Sons, 2007.
3. Gupta, R. P., “Remote Sensing Geology”, 2nd Ed., Springer, 2003.
4. Drury, S. A., “Image Interpretation in Geology”, 2nd Ed, Allen & Unwin, 1993.
5. Cracknell, A.P., “Introduction to Remote Sensing”, (2nd Ed.), Tylor & Francis, London, 1991.
6. Gonzalez, Rafael C. and Richard E. Woods “Digital Image Processing”, (3rd Edition) Pearson Education, London.

Course Syllabus prepared by \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

  
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**MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**B. TECH CLASS:IV YEAR II SEM TIME TABLE**  
**(2020-2021) w.e.f. 22/03/2021**

Class in charge: G.SHIRISHA

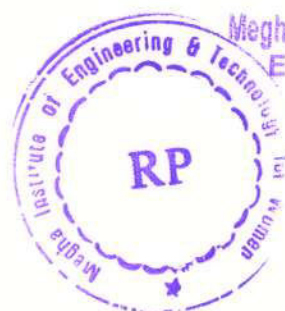
DAY /TIME	1	2	3	4	1:00-1:30	5	6	7
	9:30-10:20	10:20-11:10	11:20-12:10	12:10-01:00		1:30:-2:20	2:20-3:10	3:10-4:00
MON	WM	IWWT	AS		<b>LUNCH</b>	<b>Major Project</b>		
TUE	IWWT		WM					
WED	WM	IWWT	DM					
THU	IWWT	WM	DM					
FRI	LIB		COUN	SPORTS				
SAT	CO-CUR			SEMINAR				

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
CE851PC	Waste Management.(WM)	D.RAJA SHEKAR REDDY
CE864PC	Industrial Waste Water Treatment(IWWT)	B.HARISH
CE511OE	Disaster management(DM)	G.SHIRISHA
	Advanced Surveying(AS)	P.MADHAVI
Major Project		ALL FACULTY
CO-CUR	CO-CURRICULAR ACTIVITIES	DEPT. FACULTY
COUN	COUNCELING	P.MADHAVI
SEMINAR	SEMINAR	DEPT. FACULTY

*G. S. Shirisha*  
**CLASS IN CHARGE**

*B. S. Reddy*  
**HOD**

*A. S. Reddy*  
**PRINCIPAL**



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# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Approved by AICTE & Affiliated to JNTUH)

SY. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301

## CIVIL ENGINEERING DEPARTMENT

### **Additional course name: ADVANCED SURVEYING**

Modern Surveying is unimaginable without the use of electronic equipment and information technology. Surveying with conventional systems has been completely replaced with advanced automated systems. Total Station, Global Positioning System (GPS), Remote Sensing and Geographical Information System (GIS) have all become an inextricable part of surveying. Advanced Surveying: Total Station, GIS and Remote Sensing provide a thorough working knowledge of these technologies.

### **COURSE Syllabus**

#### **UNIT – I**

**AERIAL SURVEY:** Terrestrial stereo-photography – Aerial photography – scale of vertical and tilted photograph – displacements and errors in Aerial photography – procedure of aerial survey – ground control – flight planning – photo interpretation equipment – parallax and measurement – plotting the details – Rectification – photogrammetric products

#### **UNIT - II**

**REMOTE SENSING:** Introduction – Electromagnetic Energy – Electromagnetic Spectrum – Effect of atmosphere on electromagnetic Radiation – Energy Interaction with earth surface features – Remote sensing sensor systems – Ideal and Real Remote Sensing systems – Data acquisition systems and interpretation – Resolution concept in Remote sensing – Applications of Remote sensing

#### **UNIT - III**

**FUNDAMENTAL CONCEPTS OF GEOGRAPHIC INFORMATION SYSTEM:** Introduction- Various Definitions of GIS - Ordinary Mapping to GISs - GIS Architecture (GIS Subsystems) - Components of a GIS - The Four Ms - GIS Workflow - Fundamental Operations of GIS - Levels of Use of a GIS - Objective of GIS - The Theoretical Framework of a GIS - Accuracy in a GIS - Data Exploration - Thematic Layering - Levels of Measurement in GIS - Categories of GIS – Topology – GIS data types i.e., Spatial and Attribute data models

#### **UNIT – IV**

**DATA ACQUISITION:** Data Acquisition In Geographic Information System - Aerial Photographs - Satellite Imagery - Global Positioning System - Digitizers (For Vector Data Input) - Scanners (For Raster Data Input) - Digital Mapping By Aerial Photogrammetry - Remote

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Sensing With Satellite Imagery – Rasterization – Vectorization - Digital Mapping By Aerial Photogrammetry - Data Processing - Functions Of GIS

**MAPS AND MAP PROJECTIONS: Maps:** Types, Scale, Symbols, Uses, Characteristics – Map projections – Different map projections

#### UNIT – V


**GLOBAL POSITIONING SYSTEM:** Introduction – GPS overview – Satellite constellation – Operational control segment – Equipment segment – Principal of position determination – determining satellite to user range – Calculation of user range – GPS accuracy – Uses and Applications of GPS.

#### Books and references

1. Goodman, RE (1989). Introduction to Rock Mechanics, Canada, John Wiley & Sons.
2. Hoek, E and Bray, JW (1977). Rock Slope Engineering. The Institution of Mining and Metallurgy, London.
3. Hoek, E and Brown, ET (1988). Underground Excavations. Spon Press. Jaeger, JG, Cook, NGW and Zimmerman, RW (2007). Fundamentals of Rock Mechanics. 4th Ed., Singapore, Blackwell Publishing
4. Ramamurthy, T (2007). Engineering in Rocks for Slopes, Foundation and Tunnels. N. Delhi, PHI Pvt. Ltd. Singh, B and Goel RK (2011).
5. Engineering Rock Mass Classification. Oxford, UK, Elsevier Inc.
6. Sivakugan, N, Shukla, SK and Das, BM (2013). Rock Mechanics: an introduction. Boca Raton, FL, CRC Press.
7. Wyllie, DC and Mah CW (2004). Rock Slope Engineering, Civil and Mining. NY, Spon Press.

Course Syllabus prepared by \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE

Date : 23/02/2021

CIRCULAR

It is hereby informed to B.Tech Electronics and Communication Engineering (ECE) students and faculty that the classes for the add on/value added courses is to be scheduled for the academic year **2020-2021**. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	ECE	II	Analog Electronic Circuits
2	B.Tech	ECE	III	Embedded 'C'
3	B.Tech	ECE	IV	PCB Design

  
Co-ordinator

  
Principal

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# MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN

Department Of Electronics and Communication Engineering

## B.TECH II-II ECE Time Table

A.Y 2020-21

w.e.f : 22/03/21

TIME / DAY	09:30-10:20	10:20-11:10	11:20-12:10	12:10-1:00		01:30-02:20	02:20-3:10	03:10-4:00
Mon	ECA	LICA	EFW	ADC		LTNMC	LTNMC	LIB
Tue	←-----ICA/ ECA LAB-----→				LTNMC	ADC	EFW	ADDON/AEC
Wed	ADC	LTNMC	LICA	EFW		ECA	ECA	ADDON/AEC
Thu	←-----ECA/ADC LAB -----→				EFW	LICA	EFW	CO-CU
Fri	LICA	ADC(T)	LTNMC(T)	ECA		←----- GS LAB-----→		
Sat	←-----ADCLICA LAB-----→				LTNMC	ADC	ECA	SEMINAR

\* (T)-Tutorial Concern Faculty

Class Incharge: Ms.T.Navya

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA401 BS	LTNMC-Laplace Transforms, Numerical Methods & Complex Variables	Mr.A. Siddeshwar	EC406PC	ADCLab-Analog and Digital Communications Lab	S.Surendra
EC402PC	EFW-Electromagnetic Fields and Waves	K.Srinivas	EC407PC	LICALab-LinearIC Applications Lab	G.CHAITANYA
EC403PC	ADC-Analog and Digital Communications	S.Surendra	EC408PC	ECALab- Electronic Circuit Applications Lab	Ms.T.Navya
EC404PC	LICA-LinearIC Applications	G.CHAITANYA	*MC409	Gender Sensitization Lab	A.R. Rao
EC405PC	ECA- Electronic Applications	Ms.T.Navya	LIB	Library	Mr.M.SHIVARAMKRISHNA
Co-Cu	Co-Curricular Activities	Ms.T.Navya	SPORTS	Sports	Mr. M.V. Reddy
COUN	Student Counselling	Department Faculty	ADD ON	AEC-Analog Electronics Circuits	T.Navya

  
Class I/C



  
HOD

  
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## Department of Electronics and Communication Engineering

Add on Course Name: **ANALOG ELECTRONIC CIRCUITS**

Course Syllabus:

UNIT 1: Transistor at high frequencies, Hybrid  $\pi$  conductance's, Hybrid  $\pi$  capacitances, validity of hybrid  $\pi$  model, determination of high-frequency parameters in terms of low-frequency parameters, Analysis of common Source and common drain Amplifier circuits at high frequencies.

UNIT 2: Differential amplifier using BJT, Feedback principle, Method of analysis of feedback amplifiers. common source, common gate, common drain Circuits Source degenerated common source amplifier

UNIT 3: Oscillator principle, design of oscillators using FET, Quartz oscillator, some problems.

UNIT 4: Classification of amplifiers(A to H), Thermal stability and Heat sinks.

### Books and References:

1. Integrated Electronics- J. Millman and C.C. Halkias, Tata McGraw-Hill, 1972.
2. Electronic Devices and Circuits Theory – Robert L. Boylestad and Louis Nashelsky, Pearson/Prentice Hall, Tenth Edition, 2009.
3. Electronic Devices and Integrated Circuits – B.P. Singh, Rekha, Pearson publications, 2006


Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

### OUTCOMES:

- At the end of this course the student can able to Design and analysis of small signal high frequency transistor amplifier using BJT and FET.
- Design and analysis of multi stage amplifiers using BJT and FET and Differential amplifier using BJT.
- Derive the expressions for frequency of oscillation and condition for oscillation of RC and LC oscillators and their amplitude and frequency stability concept.
- Know the classification of the power and tuned amplifiers and their analysis with performance comparison.



  
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# MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN

Department Of Electronics and Communication Engineering

## B.TECH III-II ECE Time Table

A.Y 2020-21

w.e.f : 22/03/21

TIME / DAY	09:30-10:20	10:20-11:10	11:20-12:10	12:10-1:00		01:30-02:20	02:20-3:10	03:10-4:00
Mon	A&P	←-----e-CAD/DSP LAB-----→				BOST	ESD	SEMINAR
Tue	DSP	←-----SL/ e-CAD LAB-----→			L U N C H	VLSID	BOST	ADDON/EMBD C
Wed	A&P	BOST	ESD	VLSID		DSP	ADDON/EMBD C	CO-CU
Thu	←-----DSP/SL LAB-----→			VLSID		DSP	A&P	LIB
Fri	ESD	BOST	VLSID	A&P		DSP(T)	COUN	SPORTS
Sat	ESD	VLSID(T)	DSP	A&P(T)		←-----EVS LAB-----→		

\*(T)-Tutorial Concern Faculty

Class Incharge K.Srinivas

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EC601PC	A&P-Antennas Propagation	Mr.A.Rangarao	EC604PC	DSP LAB- Digital Signal Processing Lab	S.Sumalatha
EC602PC	DSP-Digital Signal Processing	K.Raju	EC605PC	E-CAD Lab	A.Madhusudan reddy
EC603PC	VLSID-VLSI Design	A.Madhusudan reddy	EC606PC	SLLAB-Scripting Languages Lab	Dr.K.G.S.Venkaateshen
EC613PE	ESD-EmbeddedSystem Design	Dr.M.Venuogopal	*MC609	EVS-Environmental Science	Mrs Santhosi Laxmi
Co-Cu	BOST-Basics of Sensors Technology	M.Sudeer babu	LIB	Library	Mr.M.SHIVARAMAKRISHNA
Co-Cu	Co-Curricular Activities	Ms.T.Navya	SPORTS	Sports	Mr. M.V. Reddy
COUN	Student Counselling	Department Faculty	ADD ON	EMBD-Embedded C	Dr. M. Venuogopal

*K.Srinivas*  
Class I/C



HOD

*[Signature]*

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## Department of Electronics and Communication Engineering

Add on Course Name: **EMBEDDED 'C'**

Course Syllabus:

UNIT 1: Programming embedded systems in C, What is an embedded system, How do you develop embedded software, Which operating system should you use Introducing the 8051 microcontroller family.

UNIT 2: Clock frequency and performance Memory issues I/O pins Timers Interrupts Serial interface Power consumption, Installing the Keil software and loading the project.

UNIT 3: Basic techniques for reading from port pins Example: Reading and writing bytes Example: Reading and writing bits (simple version) Example: Reading and writing bits (generic version) The need for pull-up resistors Dealing with switch bounce Example: Reading switch inputs (basic code)

UNIT 4: Object-oriented programming with C The Project Header (MAIN.H) The Port Header (PORT.H) Example: Restructuring the 'Hello Embedded World' example Example: Restructuring the goat-counting example.

Books and References:

1. HCS12 Microcontrollers and Embedded Systems 1st Edition  
by Muhammad Ali Mazidi (Author), Danny Causey (Author), Janice G. Mazidi (Author)
2. Model-Based Engineering of Embedded Systems: The SPES 2020 Methodology 2012th Edition  
by Klaus Pohl (Editor), Harald Hönninger (Editor), Reinhold Achatz (Editor), Manfred Broy (Editor)
3. Introduction to Embedded Systems: Using Microcontrollers and the MSP430 2014th Edition  
by Manuel Jiménez (Author), Rogelio Palomera (Author), Isidoro Couvertier (Author)

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

OUTCOMES:

1. Acquire a basic knowledge about fundamentals of microcontrollers
2. Acquire a basic knowledge about programming and system control to perform a specific task.
3. Acquire knowledge about devices and buses used in embedded networking
4. Develop programming skills in embedded systems for various applications.
5. Acquire knowledge about basic concepts of circuit emulators.
6. Acquire knowledge about life cycle of embedded system design and its testing.



  
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# MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN

Department Of Electronics and Communication Engineering

## B.TECH IV-II ECE Time Table

A.Y 2020-21

w.e.f : 22/03/21

TIME / DAY	09:30-10:20	10:20-11:10	11:20-12:10	12:10-1:00	L U N C H		
					01:30-02:20	02:20-3:10	03:10-4:00
Mon	ML	ML	DA	DA	CMOS	COUN	ADDON/PCBD
Tue	CMOS	CMOS	DA	DA	ML	SEMINAR	SPORTS
Wed	CMOS	CMOS	ML	ML	DA	CO-CU	LIB
Thu	←-----Project Stage-II-----→				←-----Project Stage-II-----→		
Fri	←-----Project Stage-II-----→				←-----Project Stage-II-----→		
Sat	←-----Project Stage-II-----→				←-----Project Stage-II-----→		

\* (T)-Tutorial Concern Faculty

Class Incharge :S.Anitha Rao

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EC811PE	DA- DATA ANALYTICS	P.Prem chand	Co-Cu	Co-Curricular Activities	Ms.T.Navya
EC823PE	CMOS- A CMOS IC DESIGN	B.Sumalatha	COUN	Student Counselling	Department Faculty
OE-III	ML-Machine Learning	Mrs. S. Anitha Rao	LIB	Library	Mr.M.Shivaramakrishna
EC801PC	Project Stage-II	Mr.P.Anjaiah	SPORTS	Sports	Mr. M. V. Reddy
ADD ON	PCBD-Printed circuit design	Mr. K.Raju			

*S.Anitha*  
Class I/C



*[Signature]*  
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## Department of Electronics and Communication Engineering

Add on Course Name: **PCB DESIGNING**

Course Syllabus:

UNIT 1: Introduction to Printed circuit board: fundamental of electronic components, basic electronic circuits, Basics of printed circuit board designing: Layout planning, general rules and parameters, ground conductor considerations, thermal issues, check and inspection of artwork.

UNIT 2: Design rules for PCB: Design rules for Digital circuit PCBs, Analog circuit PCBs, high frequency and fast pulse applications, Power electronic applications, Microwave applications

UNIT 3: PCB Technology Trends: Multilayer PCBs. Multiwire PCB, Flexible PCBs, Surface mount PCBs, Reflow soldering, Introduction to High-Density Interconnection (HDI) Technology.

UNIT 4: PCB Placement in an enclosure, Filtering circuit placement, decoupling and bypassing, Electronic discharge protection, Electronic waste

Books and References:

1. PCB Design: Printed Circuit Board. Kindle Edition
2. "PCB Design: Printed Circuit Board" by Michael Dsouza and Dsouza Michael
3. "PCB Design Using AutoCAD (EDN Series for Design Engineers)" by Chris Schroeder

OUTCOMES: On completion of the Course

1. Students can explore different aspect of Printed Circuit Board Design and fabrication.
2. Students can learn various types of PCBs. Schematic Design. entry Rules for Schematic Entry, Component Layout methods
3. Placement Rules, Routing Techniques for Single Sided Board.
4. Post Processing of design and Fabrication documents.
5. After completing this course students can design and fabricate their own PCB for their Project and can also work in PCB Designing and Fabrication area.

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_



  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

Date : 1-02-2021

CIRCULAR

It is hereby informed to B.Tech COMPUTER SCIENCE AND ENGINEERING (CSE) students and faculty that the classes for the add on/value added courses is to be scheduled for the academic year 2020-2021. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	CSE	II	Introduction to internet of things
2	B.Tech	CSE	III	Introduction to Blockchain Technology and Applications
3	B.Tech	CSE	IV	Python Programming

  
Course co-ordinator

  
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# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Approved by AICTE & Affiliated to JNTUH)

SV. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING B.TECH II-II CSE Time Table

A.Y 2020-21 (SECTION -A & B)

w.e.f:1/02/21

	1	2	3	4	LUNCH BREAK			5	6	7
MON	DM (9.30-10.20)	(10.20-11.10)	(11.20-12.10)	(12.10-1.00)	←----- Java - Batch 1, OS - Batch 2 -----→			DBMS (1.30-2.20)	BEFA (2.20-3.10)	ADD-ON (3.10-4.00)
TUE	OS	DBMS	BEFA	DM				DBMS	Library	Java
WED	Java	OS	DM	BEFA				NPTTEL	ADD-ON	
THUS	DBMS	Java	OS	BEFA				BEFA	Java	DM
FRI	OS	←----- DBMS - Batch 1, Java - Batch 2 -----→						ADD-ON		Sports
SAT	Java	DBMS	OS	DM						

\*(T)-Tutorial Concern Faculty

Class Incharge :Asandhya

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
CS401PC	Discrete Mathematics	Mr. Lakshmn	CS406PC	Operating System Lab	Ms. M.Sumanjali
CS404PC	Database Management System	Mrs. A.Sandhya	CS408PC	Java Programming Lab	Mr. S.Venkateswara Rao
SM402MS	Business Economics and Financial Analysis	Mr. Hafeez	CS407PC	Database Management System Lab	Mrs. A.Sandhya
CS302PC	Data Structures	Mr. S.Venkateswara Rao	*MC409	Constitution of India	Mr. Prem Chand
CS403PC	Operating System	Ms. M.Sumanjali	LIB	Library	Mr. MD. Ishaque
Co-Cu	Co-Curricular Activities	Mrs. S.Akhila	SPORTS	Sports	Mr. M.V. Reddy
COUN	Student Counselling	Department Faculty	ADD-ON	Introduction to internet of things	Mr.K.Rajkumar

Class V/C

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## Department of Computer Science And Engineering

Add on Course Name: **Introduction to internet of things**

Course Syllabus:

### Unit-1:

Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I, Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II, Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II.

### Unit-2:

Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications, Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II.

### Unit-3:


Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi, Implementation of IoT with Raspberry Pi (contd), Introduction to SDN, SDN for IoT.

### Unit-4:

SDN for IoT (contd), Data Handling and Analytics, Cloud Computing, Cloud Computing(contd), Sensor-Cloud.

### Unit-5:

Fog Computing, Smart Cities and Smart Homes, Connected Vehicles, Smart Grid, Industrial IoT, Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring.

  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**B.TECH IV-II CSE Time Table**

A.Y 2020-21

w.e.f:1/02/21

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
Mon		Project				Project	
Tues		Project				Project	
Wed		Project				Project	
Thurs	DA	DA	CF	CF	ERP	ADD ON	
Fri	CF	CF	DA	DA	ERP	ADD ON	
Sat	DA	DA	CF	CF	ERP	ADD ON	

**LUNCH BREAK**

\*(T)-Tutorial Concern Faculty

Class Incharge : Mr.P.Premchand

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EE831OE	Entrepreneur Resource Planning	Mr. Ravi Chandra	Co-Cu	Co-Curricular Activities	Mrs. N.Sudha Rani
CS853PE	Data Analytics	Mr. P.Premchand	COUN	Student Counselling	Department Faculty
CS863PE	Computer Forensics	Mrs. S.Akhila	LIB	Library	Mr.MD. Ishaque
CS801PC	Major Project	Mr.S.Venkateswara Rao	SPORTS	Sports	Mr. M.V. Reddy
			ADD ON COURSE	Python Programming	Mr.B.Naresh

*P.Premchand*  
Class I/C

*S. Venkateswara Rao*  
HOD

*Megha*  
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## Department of Computer Science And Engineering

Add on Course Name: Python Programming

Course Syllabus:

### Unit-1:

Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I, Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II, Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II.

### Unit-2:

Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications, Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II.

### Unit-3:

Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi, Implementation of IoT with Raspberry Pi (contd), Introduction to SDN, SDN for IoT.

### Unit-4:

SDN for IoT (contd), Data Handling and Analytics, Cloud Computing, Cloud Computing(contd), Sensor-Cloud.

### Unit-5:

Fog Computing, Smart Cities and Smart Homes, Connected Vehicles, Smart Grid, Industrial IoT, Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring.

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
B.TECH III-II CSE Time Table

A.Y 2020-21 (SECTION -A & B)

w.e.f:1/02/21

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	LUNCH BREAK		
Mon	DAA	CD	ML	IOT	LUNCH BREAK		
Tues	DAA	CD	ML	IOT			
Wed	DAA	CD	ML	IOT			
Thus	IOT	SL	ML	DAA			
Fri	CD	SL	ML	SL			
Sat	CD	SL	IOT	DAA	SL Lab		

\*(T)-Tutorial Concern Faculty

Class Incharge : Mrs. S.Akhila

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
CS601PC	Machine Learning	Mr. S.Venkateswara Rao	CS604PC	Machine Learning Lab	Mr. S.Venkateswara Rao
CS602PC	Compiler Design	Mrs. S.Akhila	CS605PC	Compiler Design Lab	Mrs. S.Akhila
CS603PC	Design and Analysis of Algorithms	Mrs. A.Sandhya	CS625PE	Software Testing Methodologies	Mrs.N.Sudha Rani
CS615PE	Software Testing Methodologies	Mrs.N.Sudha Rani	*MC609	Environmental Science	Mrs. Santhosi Laxmi
EC600OE	Fundamentals of Internet of Things	Mr.K.Raj Kumar	LIB	Library	Mr.MD. Ishaque
Co-Cu	Co-Curricular Activities	Mrs. N.Sudha Rani	SPORTS	Sports	Mr. M.V. Reddy
COUN	Student Counseling	Department Faculty	ADD-ON	Introduction to Blockchain Technology and Applications	Mr.S.Venkateshwara Rao

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Class ITC

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## Course name: Introduction to Blockchain Technology and Applications

### Syllabus

#### Unit-1:

Introduction – basic ideas behind blockchain, how it is changing the landscape of digitalization, introduction to cryptographic concepts required, Hashing, public key cryptosystems, private vs public blockchain and use cases, Hash Puzzles, Introduction to Bitcoin Blockchain

#### Unit-2:

Bitcoin Blockchain and scripts, Use cases of Bitcoin Blockchain scripting language in micropayment, escrow etc Downside of Bitcoin – mining .

#### Unit-3:


Alternative coins – Ethereum and Smart contracts , Alternative coins – Ethereum continued, IOTA

#### Unit-4:

The real need for mining – consensus – Byzantine Generals Problem, and Consensus as a distributed coordination problem – Coming to private or permissioned blockchains – Introduction to Hyperledger .

#### Unit-5:

Permissioned Blockchain and use cases – Hyperledger, Corda ,Uses of Blockchain in E-Governance, Land Registration, Medical Information Systems, and others .

  
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# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

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## Department of Electrical and Electronics Engineering

### VALUE ADDED COURSE

Date: 23/03/2021

### CIRCULAR

It is hereby informed to B.Tech **EEE** students that the classes will be conducted for add on/value added courses for the academic year 2020-2021 for the regulation R16. Hence requesting all students to register the following for Add on course

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	EEE	IV	Advances in UHV transmission and distribution

*K. Anusha*

Training In-Charge

*[Signature]*  
Principal

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**MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN**  
Edulabad (V), Ghatkesar (M), Medchal (Dist)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING  
B.Tech IV – II Semester**

A.Y 2020-21

w.e.f :22/03/21

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	<b>LUNCH BREAK</b>	5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
MON	EDS	EDS	UEP	DM		ADD ON	ADD ON	SPORTS
TUE	UEP	UEP	DM	DM		Seminar	Seminar	COUN
WED	EDS	Major project				Major project		
THUR	Major project			Major project				
FRI	Major project			Major project				
SAT	Major project			Major project				


\*(T)-Tutorial Concern Faculty

Class Incharge: Mr.CH.Satynarayana

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EE8532PE	Electrical Distribution System	Mr. CH. Satyanarayana	EE704PC	Major Project	Mr. G. Srikar
EE863PE	Utilization of Electrical Power	Mrs. P.Pavani	ADD ON	Advances in UHV transmission and distribution	Miss K. Anusha
PE831OE	Disaster Management	Miss B. Shirisha	LIB	Library	Mr. Shiva rama krishna
SEMINAR	Seminar	MR. G Srikar	Sports	Sports	Mr. V. Reddy
COUN	Student Counselling	G Santosh Kumar	Co-Cu	Co-Curricular Activities	P.Pavani

  
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## Department of Electrical And Electronics Engineering

Additional Course Name: Advances in uhv transmission and distribution

UNIT-1 : Introduction to the development of Power Transmission, Advantages of HVAC/DC

Transmission, Introduction to Grid Management, Transmission system development , Important components of transmission system, Insulation coordination, over voltage in power systems, Design/selection of insulators, Importance of grading/cc rings. Recent advances in UHV power transmission systems; present status and future growth.,

UNIT-II : Major Components of HV transmission systems, types of conductor, configurations conductor accessories/clamps etc. Design Optimization for UHV towers Introduction to 1100kV HVDC, Introduction to HV Substations, Types of Substations, comparison, Insulation coordination, Components in a typical substation Towers for UHV transmission: calculations of clearances for power frequency, switching and lightning surges, right of way(ROW)etc. Importance of Grounding, reducing Earthing resistance

UNIT-III : Selection of insulators for light, medium and heavy polluted areas Up-gradation of existing transmission lines, Introduction to the use of Fiber optic cables, OPGW, Introduction to communication and SCADA. Introduction to digital recorders, measurement, Upgradation/uprating of transmission lines- advantages, Upgradation/uprating of transmission lines- advantages(cont)

UNIT-IV : Insulation coordination for UHV systems, Measurements of High Voltages (cont), Importance of Generation of HVAC, Impulse Voltage and Currents in the laboratory Earthing and safety measures for UHV substation, Electrical hazards, minimum clearances in substation.

### OUT COMES:

- This course introduces the recent advances in EHV/UHV transmission and distribution systems.
- The discussion on the various components used for UHV transmission, design considerations for UHV substations etc are strengthened with the aid of lectures, practical video demonstrations and assignment exercises

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

  
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# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

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SY. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301


## Department of Electrical and Electronics Engineering

### VALUE ADDED COURSE

Date: 23/03/2021

### CIRCULAR

It is hereby informed to the faculty of EEE to express your willingness to provide Add-On/Value-Added courses for the academic year 2020-2021 for the regulation R18. Therefore, it is required that all the interested faculty members to register for the respective Add-on courses.

Sl.No	Program Name	Branch	Year	Value Added Course	Name of the Faculty	Signature
1	B.Tech	EE	III	Introduction to smart grid	Mr.G.Srikar	

  
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**MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN**  
Edulabad (V), Ghatkesar (M), Medchal (Dist)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**B.Tech III– II Semester**

**A.Y 2020-21**

**w.e.f :22/03/21**

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	LUNCH BREAK	5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
MON	PSA	L&DIC	PE	IM		PE(T)	SGP	Library
TUE	IM	SGP	PSA	L&DIC		PS LAB		
WED	PE LAB			PE		IM	IM(T)	CO-CU
THUR	PE	SGP	L&DIC	PSA		SGP(T)	ADD ON	ADD ON
FRI	IM	PE	L&DIC	PE(T)		English LAB		
SAT	PSA	L&DIC	IM	SGP		Seminar	sports	COUN

\*(T)-Tutorial Concern Faculty

Class Incharge :G.Srikar

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EE601PC	Power System Analysis	Mr .Sudheer babu	EE604PC	Power systems Lab	Mr.G.Srikar
EE602PC	Power Electronics	Mr.Y.Pradyumna	EE605PC	Power electronics LAB	Mr.B.Veeranna
EE603PC	Switch Gear & Protection	Mr.CH.Satyanarayana	EE606PC	Advanced English Communication skills lab	Mr.Jochiam Augustin
EE613PC	Linear & Digital IC Applications	Miss.B.Sumalatha	Seminar	Seminar	Mr.A.Venkatesh
MT623OE	Industrial Management	Miss.B.Shirisha	LIB	Library	Mr. Shiva rama krishna
Co-Cu	Co-Curricular Activities	Miss.P.Pavani	Sports	Sports	Mr. V. Reddy
COUN	Student Counselling	Mr.G.Santhosh	Add-on	Introduction of smart grid	Mr.A.Venkatesh

  
Class I/C

  
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## Department of Electrical And Electronics Engineering

Additional Course Name: INTRODUCTION TO SMART GRID

### COURSE SYALLBUS:

UNIT-I: Introduction to Smart Grid I& II, Architecture of Smart Grid System, Standards for Smart Grid System Elements and Technologies of Smart Grid System Elements and Technologies of Smart Grid System-II Distributed Generation Resources-I, II, III & LV

UNIT-II: Wide Area Monitoring Systems-I & II, Phasor Estimation-I & II, Digital relays for Smart Grid Protection Islanding Detection Techniques-I, II, III & IV, Smart Grid Protection-I

UNIT-III: Smart Grid Protection-II& III, Modelling of Storage Devices, Modelling of DC Smart Grid components Operation and control of AC Microgrid-I Smart Grid Protection-II& III, Modelling of Storage Devices, Modelling of DC Smart Grid components

UNIT-IV: Islanding Detection Techniques-I, II, III & IV, Smart Grid Protection-I

Week 08 : Smart Grid Protection-II& III, Modelling of Storage Devices, Modelling of DC Smart Grid components

### OUTCOMES:

- ✓ This course mainly focuses on background and fundamental building blocks of smart grid with stringent emphasis on practical applications in the existing power system network.
- ✓ In addition to it, this further provides detailed utility level analysis in terms of energy management, network analysis and operation of renewable based smart grids.

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

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## Department of Electrical And Electronics Engineering

**Additional Course Name:** ADVANCED LINEAR CONTINUOUS CONTROL SYSTEMS: APPLICATIONS WITH MATLAB PROGRAMMING AND SIMULINK

### COURSE SYLLABUS:

UNIT-1: Introduction to State Space, State Space Representation: Companion Form (Controllable Canonical Form), Extended Controllable Canonical Form, Observable Canonical Form. State Space Representation: Diagonal Canonical Form, Jordan Canonical Form, State Space Representation: Numerical Examples on State Space Modelling.

UNIT-2: Modelling of Mechanical Systems in State Space: Modelling of DC Servo Motor, Modelling of DC Servo Motor, Determination of Transfer Function from State Space Model Stability Analysis in State Space: Concept of Eigenvalues and Eigenvectors, Lyapunov Stability Analysis (Direct Method). Concept of Diagonalization, Solution of State Equation, Solution of State Equation (Forced system),

UNIT-3: Concept of Diagonalization, Solution of State Equation, Solution of State Equation (Forced system), Steady State Error for State Space System, State Transition Matrix using Cayley Hamilton Theorem (Part-III), MATLAB Programming with State Space, Controllability in State Space.

UNIT-4: Observability in State Space, Pole Placement by State Feedback. Tracking Problem in State Feedback Design, State Observer Design

### OUTCOMES:

- ✓ Today, there is an utmost need to understand advanced control engineering on account of its multidisciplinary applications in various areas of engineering.
- ✓ Further, stability analysis issues in state space will be discussed. Finally, the concepts of controllability, observability, controller design, and observer design will also be discussed.

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

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Edulabad (V), Ghatkesar (M), Medchal (Dist)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**B.Tech II- II Semester**

**A.Y 2020-21**

**w.e.f : 22/03/21**

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	LUNCH BREAK	5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
MON	PS-I	STLD	BEFA	CS		EM-II LAB		
TUE	CS	PS-I	EM-II	STLD		Gender sensitization lab	PS-I(T)	COUN
WED	CS LAB			CS		ADD ON	ADD ON	CO-CU
THUR	EM-II	STLD	BEFA	PS-I		Gender sensitization lab	Seminar	Library
FRI	BEFA	EM-II	CS	STLD		EC LAB		
SAT	STLD(T)	PS-I	BEFA	CS(T)		EM-II	EM-II(T)	Sports

\*(T)-Tutorial Concern Faculty

Class Incharge: V.Ashok chakravarthy

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
EE402ES	Power System-I	Mr. .G.srikar	EE407ES	Electrical Machines Lab- II	Mr.G.Santhosh Kumar
EC401PC	Switching Theory & Logic Design	Mr.D.Ramesh	EE408ES	Electronic Circuits LAB	Mr.D.Ramesh
SM303MS	Business Economics Financial Accounts	Mr.MD.AfeeZ	EE406ES	Control Systems LAB	Mr.V.Ashok
EE404ES	Control Systems	Mr.V.Ashok chakravarthy	*MC400HS	Gender sensitization lab	Mr.M.Madhu Babu
EE403ES	Electrical Machines-II	Mr.G.Santhosh	Seminar	Seminar	Mr.Satyanarayana
Add-on	Advanced linear continuous contol systems	Miss. k.Anusha	LIB	Library	Mr. Shiva rama krishna
Co-Cu	Co-Curricular Activities	Mrs.P.Pavani	Sports	Sports	Mr. V. Reddy
COUN	Student Counselling	Mr.Sudheer babu			

  
Class I/C

  
HOD

**PRINCIPAL**

  
Principal  
Megha Inst. of Engg. & Tech for Women  
Edulabad, Ghatkesar (M.D.),  
Medchal Dist-501





# MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Approved by AICTE & Affiliated to JNTUH)

SY. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301

## Department of Electrical and Electronics Engineering

### VALUE ADDED COURSE


Date: 23/03/2020

### CIRCULAR

It is here by informed to B.Tech **EEE** students that the classes will be conducted for add on/value added courses for the academic year 2020-2021 for the regulation R18. Hence requesting all students to register the following for Add on course.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	EEE	II	Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink

  
Training In-Charge

  
Principal  
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SY. NO. 7, EDULABAD (V), GHATKESAR (M), MEDCHAL (D), TELANGANA - 501301

## DEPARTMENT OF BUSINESS ADMINISTRATION

### VALUE ADDED COURSE

Date :13/04/2020

### CIRCULAR

It is hereby informed to MBA students that the classes for the add on/value added courses is to be scheduled for the academic year 2020-2021. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

#### 2020-2021

S.NO	Program Name	Branch	Year	Value Added Course
1	M.B.A	MBA	I	Information Technology for Managemen

  
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Department of Business Management

MBA -I/ II Time Table

w.e.f: 18/04/20

A.Y 2020-21

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
MON	HRM	MM	FM	QABD	ES	LSCM	SPORTS
TUE	MM	MR	QABD	SEMINER	FM	LSCM	HRM
WED	FM	QABD	MM	ES	SEMINER	LSCM	LIBRARY
THUR	HRM	MR	MM	FM	LIBRARY	SPORTS	SPORTS
FRI	FM	QABD	ITAM(Add-on)	MR	QABD	ES	QABD
SAT	MM	ES	HRM	LSCM	SEMINAR	FM	MR
LUNCH BREAK							

\*(T)-Tutorial Concern Faculty Class In charge :Mr. R SrinivasaRao

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
19MBA09	HRM	DR.B SAMMAIAH	19MBA14	LSCM	MRS T SONY PRIYA
19MBA10	MM	MR.R SRINIVASRAO			
19MBA11	FM	DR G SUDHKAR	19MBA15	MR	DR K MADHU BABU
19MBA12	QABD	DR K MADHU BABU			
19MBA13	ES	MR K MALLESH BABU			
Add-on	ITAM	MR.R SRINIVAS RAO	LIB	Library	Mr. Isaque
Co-Cu	Co-Curricular Activities	Mr..K BHANU CHANDRA	Sports	Sports	MR.RAMAN RAJ
COUN	Student Counselling	Department Faculty			

Class I/C

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HOD

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## Department of Business Management

Add on Course Name: **Information Technology for Management**

Course Syllabus:

**Unit – I:** Information Systems and Management: Computers – Definition, Characteristics, Components of Computers, Hardware, Software; Application and System Software,

**Unit – II:** Emerging Trends in IT: Categories of IS, Management Information System (MIS), Decision Support System (DSS) - Types and architecture of DSS, Data Warehouse and Data Mining, Artificial Intelligence, Intelligent Systems,

**Unit – III:** Communications and Networks: Definition, Introduction to Networks, Overview of Networks, Types of Networks, Network Topologies, Components of Networks,

**Unit – IV:** Functional Areas of Information Systems: Management Levels and Functional Systems, Manufacturing, Production, Sales and Marketing Systems, Accounting, Finance and HR Systems, Enterprise Systems

### Suggested Books:

1. Lucas, Henry C. Jr. (2017), “.Information Technology for Management”, 7th Ed, McGraw Hill Education.
2. Efraim Turban, Linda Volonino, Gregory R. Wood, “Information Technology for Management - Advancing Sustainable, Profitable Business Growth”, 9th ed., Wiley.
3. Anita Goel, “Computer Fundamentals”, Pearson Publishing.

Course Syllabus Prepared by: R. Srinivasa Rao Approved by: Dr. K. Madhu Babu  
Designation & Dept: Asst. Professor of Business Administration

### OUTCOMES:

- This course is aimed at to get acquaint the students' with the micro-level competency with regard to contemporary Information Technology Tools in organizations.
- To provide real-time insights into the fundamentals of computers as business tools and Create Awareness in upcoming managers, of different types of Information Technology, Management Systems so as to enable the use of IT resources efficiently the role and Value addition of IT in business and to enable students to develop proficiency in using certain components of the package includes MS Excel, MS Access.



DEPARTMENT OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE

Date:13/04/2020


CIRCULAR

It is hereby informed to MBA students that the classes for the add on/value added courses is to be scheduled for the academic year 2020-2021. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

**2020-2021**

S.NO	Program Name	Branch	Year	Value Added Course
1	MBA	MBA	II	Global Business Strategies

  
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Department of Business Management

MBA -II/I Time Table w.e.f:18/04/20

A.Y 2020-21

	1	2	3	4	5	6	7
	(9.30-10.20)	(10.20-11.10)	(11.20-12.10)	(12.10-1.00)	(1.30-2.20)	(2.20-3.10)	(3.10-4.00)
MON	DA	POM	SAPM/DM/PMS	MIS	FIMS/ASM/L&D	SMA/CB/MIR	GBS(Add-on)
TUE	POM		MIS		SAPM/DM/PMS	SMA/CB/MIR	DA
WED	SAPM/DM/PMS	MIS	POM	FIMS/ASM/L&D	SEMINAR	SMA/CB/MIR	LIBRARY
THUR	DA		Activity		SEMINAR	SPORTS	SPORTS
FRI	SAPM/DM/PMS		SPORTS		RMSA	FIMS/ASM/L&D	LIBRARY
SAT	POM	FIMS/ASM/L&D	DA	SMA/CB/MIR	SEMINAR	MIS	

LUNCH BREAK

Class Incharge : Dr. B. Sammaiah

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
GBS	GBS	DR. B. SAMMAIAH	19MBA21F3/M3/H3	SMA/CB/MIR	MRS T SONY PRIYA
19MBA16	POM	MR. R. SRINIVASRAO	19MBA07		MR PRAVEEN
19MBA18	DA	DR G SUJDKAR	19MBA08	Sports	DR K MADHU BABU
19MBA17	MIS	DR K MADHU BABU			
19MBA19F1/M1/H1	SAPM/DM/PMS	MR K MALLESH BABU			
19MBA20F2/M2/H2	FIMS/ASM/L&D	MR. R. SRINIVAS RAO	LIB	Library	Mr. Isaque
Co-Cu	Co-Curricular Activities	Mr. K BHANU CHANDAR	Sports	Sports	Mr-RAMAN RAJ
COUN	Student Counselling	Department Faculty			

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*Madhu*  
 HOD

*S. S. Subudh*  
 CLASS IIC





## Department of Business Management

Add on Course Name: Course Syllabus: **Global Business Strategies**

**Unit – I:** Evolution of International business, Globalization of business, Internationalization process, international business Approaches, international trade, Theories-Adam smith theory, David Ricardo, International product life cycle theory,

**Unit – II:** Rationale for Government, Forms of Trade Regulation at National level, Tariff and non-Tariff Barriers, and cost of integration, Multinational companies, Entry methods, Cost benefit analysis.

**Unit – III:** Basic principles of Multi-Lateral Trade Negotiations- GATT and its Evolution, Dunkel's Draft, WTO Structure, Functions, Success Stories, TRIPS, TRIMS, NAFTA, EU, ASEAN, SAFTA, And UNCTAD,

**Unit – IV:** Global market entry strategies, Exporting, Licensing, Franchising, Contract manufacturing, Turnkey projects, Joint ventures, Mergers, Acquisitions, Strategic alliances, Corporate analysis, intelligence alliances, Types of Alliances, Corporate alliances, cost benefit analysis.

**Unit – V:** Strategy and Global business, Global business planning and implementing Strategies, Designing effective international Organizations, cross cultural Management, culture and international business, intercultural communications, Human resource management.

### Suggested books:

1. Richard M Hodgets & Fred Luthans 2008 "international Management" TMH, New Delhi.
2. John D. Daniel & Lee H. Redebaugh 2008. International Business, Pearson Education.
3. Alan M. Rugman, Richards. M. Hodgetts, 2008, International Business Prentice Hall.

Course Syllabus Prepared by: Dr. B. Sumanash Approved by: Dr. K. Madhu Babu  
Designation & Dept: Asst. Professor of Business Management

### OUTCOMES:

- To impart global marketing skills to the learners, to make the student learn about global business environment, to provide international market analysis to the learners.



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED COURSE

Date : 14/12/2019

### CIRCULAR

It is hereby informed to B.Tech Electronics and Communication Engineering (ECE) students and faculty that the classes for the add on/value added courses is to be scheduled for the academic year 2019-2020. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	ECE	II	Fundamentals of semiconductor devices
2	B.Tech	ECE	III	Integrated Circuits, MOSFETs, OP-Amps and their Applications
3	B.Tech	ECE	IV	CMOS Digital VLSI Design

Co-ordinator

Principal

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**B.TECH II-II ECE Time Table**

w.e.f: 16/12/19


A.Y 2019-20

TIME / DAY	09:30-10:20	10:20-11:10	11:20-12:10	12:10-1:00--	01:30-02:20	02:20-3:10	03:10-4:00
Mon	ECA	LICA	EMW	MATHS	←-----ICA/ A&DC LAB-----→		
Tue	EMW	LICA	A&DC	ECA	←-----A&DC/ ECA LAB-----→		
Wed	ECA	EMW	EMW	LICA	MATHS	A&DC	SPORTS
Thu	MATHS	EMW	LICA	A&DC	←-----ECA/ ICA LAB-----→		
Fri	ECA	MATHS	LICA	A&DC	MATHS	ADD ON(FSD)	LIBRARY
Sat	EMW	ECA	A&DC	A&DC	MATHS	ADD ON(FSD)	<-GS LAB→

Class Incharge: K.Srinivas

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA401BS	LTNMC-Laplace Transforms, Numerical Methods & Complex Variables	Mr.A. Siddeshwar	EC406PC	ADCLab-Analog and Digital Communications Lab	G. Veeraiah
EC402PC	EMW	K.Srinivas	EC407PC	LICALab-LinearIC Applications Lab	B.Sumalatha
EC403PC	A&DC-Analog and Digital Communications	G. Veeraiah	EC408PC	ECALab- Electronic Circuit Applications Lab	M.Sree chandana
EC404PC	LICA-LinearIC Applications	P. Anjaiah	*MC409	Gender Sensitization Lab	K.Srinivas
EC405PC	ECA- Electronic Circuit Applications	M.Sree chandana	LIB	Library	Mr.M.SHIVARAMKRISHNA
Co-Cu	Co-Curricular Activities	Ms.T.Navya	SPORTS	Sports	Mr. M.V. Reddy
COUN	Student Counselling	Department Faculty	ADD ON	Fundamentals of semiconductor devices	Miss.T.Navya

\* (T)-Tutorial Concern Faculty

  
**HOD**

  
**Class I/C**





## Department of Electronics and Communication Engineering

Add on Course Name: **FUNDAMENTALS OF SEMICONDUCTOR DEVICES**

Course Syllabus:

UNIT 1: Introduction to semiconductors, concept of energy bands. Concept of Fermi level, Doping Equilibrium electron-hole concentration, temperature-dependence. Drift-diffusion transport

UNIT 2: p-n junction: static behavior (depletion width, field profile), p-n junction under forward & reverse bias, current equations, Zener and avalanche breakdown

UNIT 3: MOSFET: structure and operating principle, BJT: working principle, DC parameters

UNIT 4: - transistors for high-speed logic, transistors for high frequency- transistors for high-speed logic, Solar cells, Photo detector.

Books and References:

1. Solid State Electronic Devices, by Ben Streetman and Sanjay Banerjee, Prentice Hall.
2. Introduction to Semiconductor Materials and Devices, by M. S. Tyagi, Wiley Publications.

Course Syllabus Prepared by: \_\_\_\_\_ Approved

by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

OUTCOMES:

- Classify and describe the semiconductor devices for special applications.
- Describe the properties of materials and application of semiconductor electronics
- Apply concepts of semiconductor devices to design and analyze circuits.
- Apply fundamentals of semiconductor devices in electronics projects and use computer tools in circuit design, evaluation and analysis.

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**VALUE ADDED COURSE**

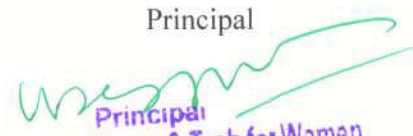
**Date : 10-07-2018**

**CIRCULAR**

It is hereby informed to B. Tech COMPUTER SCIENCE AND ENGINEERING (CSE) students and faculty that the classes for the add on/value added courses is to be scheduled for the academic year 2018-2019. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

S.NO	Program Name	Branch	Year	Value Added Course
1	B. Tech	CSE	II	Introduction to Block chain Technology and Applications
2	B. Tech	CSE	III	Data Analytics with Python
3	B. Tech	CSE	IV	Machine Learning

  
Course co-ordinator

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SY. NO. 7, EDULABAD (V), GHATKIR SAR (M), MEDCHAL (D), TELANGANA - 501301

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING B.TECH IV-1 CSE Time Table

A.Y 2018-19

w.e.f:10/07/18

	1 (9.30-10.20)	2 (10.20-11.10)	3 (11.20-12.10)	4 (12.10-1.00)	LUNCH BREAK		
Mon	DP	LP	CC	CG	LUNCH BREAK		
Tues	CC	CG	IRS	DP			
Wed	IRS	LP	DP	CG	LUNCH BREAK		
Thus	CG	DWDM	CC	DP			
Fri	DWDM	LP	IRS	CG	LUNCH BREAK		
Sat	LP	CG	DWDM	DP			
					5 (1.30-2.20)	6 (2.20-3.10)	7 (3.10-4.00)
					Mini Project-1		ADD-ON/ML
					Mini Project-1		ADD-ON/ML
					LP Lab		
					LP	ADD-ON/ML	Sports
						DWDM Lab	
					CC	Seminar	ADD-ON/ML

\*(T)-Tutorial Concern Faculty

Class Incharge : Mrs.P.Veena Rani

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
A70511	Linux Programming	Mrs.P.Veena Rani	COUN	Student Counseling	Department Faculty
A70530	Design Patterns	Ms. R. Gauthami	A70595	Data Warehousing and Mining Lab	B.Naresh
A70520	Data Warehousing and Data Mining	B.Naresh	A70533	Information Retrieval Systems	Mr. S.Venkateswara Rao
A70519	Cloud Computing	Mrs. S.Akhila	A70596	Linux Programming Lab	Mrs.P.Veena Rani
A70529	Computer Graphics	Ms. CH.Harshini	LIB	Library	Mr.M.ShivaRama Krishna
Co-Cu	Co-Curricular Activities	Ms. R. Gauthami	ADD-ON	Machine Learning	Mr. S.Venkateswara Rao

Class I/C

HOD

PRINCIPAL





Course name: Machine Learning

### Syllabus

Unit-1:

Introduction: Basic definitions, types of learning, hypothesis space and inductive bias, evaluation, cross-validation, Linear regression, Decision trees, overfitting.

Unit-2:

Instance based learning, Feature reduction, Collaborative filtering based recommendation, Probability and Bayes learning

Unit-3:

Logistic Regression, Support Vector Machine, Kernel function and Kernel SVM, Neural network: Perceptron, multilayer network, back-propagation, introduction to deep neural network

Unit-4:

Computational learning theory, PAC learning model, Sample complexity, VC Dimension, Ensemble learning.

Unit-5:

Clustering: k-means, adaptive hierarchical clustering, Gaussian mixture model

  
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DEPARTMENT OF CIVIL ENGINEERING


VALUE ADDED COURSE

Date: 16/12/2017

CIRCULAR

It is hereby informed to B.Tech Civil Engineering students that the classes will be conducted for the add on/value added courses for the academic year 2017-2018 for the regulation R16. Hence requesting all the interested students to register the following value added course.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	CIVIL	II	Maintenance of Building

  
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**MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**B. TECH CLASS:II YEAR II SEM TIME TABLE**  
w.e.f 14-12-2017 (2017-2018)

CLASS INCHARGE: G.SPOORTHY REDDY

DAY /TIME	1	2	3	4	LUNCH	5	6	7
	9:30-10:20	10:20-11:10	11:20-12:10	12:10-01:00		1:00-1:30	1:30:-2:20	2:20-3:10
MON	SM-II	EG		FM-II	LUNCH	SM II		LIBRARY
TUE	SM-II	SM II		EG		SURVEYING-II LAB		
WED	BEFA		SA I			CO-CUR	SPORTS	
THU	MB		FM-II			EG LAB		
FRI	BEFA	SA I				FM-II LAB		
SAT	COUN	BMCP	FM-II			EST	SEMINAR	

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
CE401ES	Strength of Material – II(SM-II)	MA.AZEEM
CE402ES	Fluid Mechanics – II(FM-II)	B.SAI VENKATA KRISHNA
CE403ES	Structural Analysis(SA-I)	M.PRIYANKA
CV404ES	Engineering Geology(EG)	G.SPOORTHY REDDY
SM405MS	Business Economic and Financial Analysis(BEFA)	MADHU
CE406ES	Fluid Mechanics Lab(FM-LAB)	B.SAI VENKATA KRISHNA
CE408ES	Surveying - II Lab(SURVEY-LAB II)	J.AMBICA
CV407ES	Engineering Geology Lab(EG LAB – II)	G.SPOORTHY REDDY
MC400ES	Environmental Science and Technology(EST)	MA.AZEEM
	Maintenance of building(MB)	G.SPOORTHY REDDY
COUN	Student counseling	J.AMBICA
CO-CUR	Co-curricular activities	Dept. FACULTUY
SEMINAR	Seminar	Dept. FACULTUY

*Speech*  
CLASS INCHARGE



*Useem*  
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## CIVIL ENGINEERING DEPARTMENT

### **Additional course name: Maintenance of Buildings**

“Building maintenance is work undertaken to keep, restore or improve every facility, i.e., every part of a building, its services and surrounds to a currently acceptable standard and to sustain the utility and value of the facility.” Routine maintenance of the structure is essential to keep it functional and protect it against early decay. A building is made of different parts in different locations and made of different materials. These are all susceptible to natural decay due to ageing. While designing, the life of the members is assumed with normal maintenance. For instance, a timber member is assumed to be painted at regular intervals. Preventive maintenance comprises of activities which are essentially required to make the structure strong and sound and capable of resisting early decay or damage. Preventive maintenance of a structure means improving the quality of construction and makes it more durable and functional. Remedial maintenance or repairs is removal of any decayed or damaged part of the structure or removal of any defect in the structure. Due to some reasons, the structure may show sign of damage or distress. Action for repairs or restoration work should be taken up without allowing increase of the possible defect causing further damage to the structure.

### **COURSE Syllabus**

**UNIT- I:** Introduction Definition of Maintenance of Buildings - objectives of maintenance - Broad categories at maintenance - Annual and special - Deterioration of buildings - causes - durability of buildings materials.

**UNIT-II:** Defects in buildings Broad list of common defects in buildings- methods of investigation - list of basic equipments for investigating defects - diagnosis of defects - remedial measures and execution - cracks - types -structural and non-structural causes of cracks.

**UNIT-III:** Maintenance and rehabilitation of buildings Need for rehabilitation of buildings -examples - Foundation failures - remedial measures - Demolition of buildings - safety aspects - use of heavy earth movers - precautions - Demolition process of trusses, girders, beams, walls and flooring. Under pinning - definition - Methods of under pinning.

**UNIT-IV:** Causes and their solutions Dampness in buildings at various locations - causes - treatment with standard water proofing chemicals - methodology. Cracks in walls -causes and prevention - provisions of IS SP -25 for remedial measures. Maintenance of floors - settlement of floors - repairs - removal of stains - application of stain removers - repolishing of worn out floors. Roofs -leakages of roofs - causes - spalling of concrete - exposure and corrosion of reinforcement - repairs by grouting with micro concrete and by application of anti corrosive paints. Wood work - defects in wood work due to termite and expansive cracks – treatments.

**UNIT-V:** Maintenance problems in building services Plumbing problems in water supply and sanitary lines - clogged drains - sewers - leakage in pipe joints- Electrical installation - other building services - septic tanks and soak pits 6 Maintenance organization Inventories of buildings required to be maintained - Inspections - Annual , periodical and emergency - Inspection perform - Preparation of estimates for maintenance works - Maintaining departmental labour teams for petty works - Maintaining records - Measurement books - Check measurement books and standard measurement books .

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## Books and references

1. NAYAK B.S ., "Maintenance engineering for civil engineers", Khanna publishers
2. RANSOM W.H ., "Building failures - diagnosis and Avoidance", E AND FN SPAN
3. V.K. JAIN , "Services in building complex", Khanna Publishers.
4. TTTI CHENNAI., " Building technology and valuation", Tata MC Graw- Hill publishers
5. SP:25-1987 -causes and prevention of cracks in buildings
6. SP:20-1987 - masonry structures by BIS
7. A to Z of building repairs by Ambuja technical literature series - No. 54

Course Syllabus prepared by \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation & Dept: \_\_\_\_\_

  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE


Date : 02/12/2016

CIRCULAR

It is hereby informed to B.Tech Electronics and Communication Engineering (ECE) students and faculty that the classes for the add on/value added courses is to be scheduled for the academic year **2016-2017**. The details of the courses are listed below. Hence requesting all the interested students to register the following value added courses.

S.NO	Program Name	Branch	Year	Value Added Course
1	B.Tech	ECE	II	Principles of electrical technology
2	B.Tech	ECE	III	Op-Amp Practical Applications: Design, Simulation and Implementation
3	B.Tech	ECE	IV	Mapping Signal Processing Algorithms to Architectures

*K. Siv*  
Co-ordinator

  
Principal  
Principal  
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Medchal Dist-501 301



# MEGHA INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN

Department Of Electronics and Communication Engineering

## B.TECH II-II ECE Time Table

A.Y2016-17

w.e.f : 05/12/2016

TIME / DAY	09:30-10:20	10:20-11:10	11:20-12:10	12:10-1:00	L U N C H		01:30-02:20	02:20-3:10	03:10-4:00
Mon	PEE	ECA	PDC	EMTL			ET/E&PC LAB		
Tue	ECA	PEE	EMTL	DDVHL			PDC	EVS	LIB
Wed	PDC	DDVHL	EVS	PEE			ECA	ADDON	PDC
Thu	EMTL	PDC	DDVHL	ECA			EC&PC/ET LAB		
Fri	EVS	EMTL	ECA	EVS			PEE	DDVHL	SPORTS
Sat	DDVHL	EVS	PEE	PDC			EMTL	CO-CU	

\*(T)-Tutorial Concern Faculty

Class Incharge: Ms.R.Swetha

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
A40215	PPE-Principles of Electrical Engineering	Mr. G.Srikar	A40410	DDVHL-Digital Design using Verilog HDL	Mr.K.Suresh
A40412	ECA-Electronic Circuit Analysis	Mr.K.Kirran kumar	A40288	ET LAB-Electrical Technology Lab.	Ms.CH.Rajani
A40415	PDC-Pulse and Digital Circuits	Ms.R.Swetha	A40484	ECA LAB-Electronic Circuits and Pulse Circuits Lab.	Ms.R.Swetha
A40009	EVS-Environmental Studies	Mr.K.Ravi	LIB	Library	
A40411	EMTL-Electromagnetic Theory and Transmission Lines	Mr.B.Sravan nayak	SPORTS	Sports	
Co-Cu	Co-Curricular Activities	Ms.K.Swapna	ADD ON	Principles of electrical technology	Mr.G.Santhosh Kumar
COUN	Student Counselling	Department Faculty			

Class I/C

*R. Swetha*  
HOD

*V. Lakshmi*  
HOD

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**PRINCIPAL**

**Department of Electronics and Communication Engineering**Add on Course Name: **PRINCIPLES OF ELECTRICAL TECHNOLOGY**

Course Syllabus:

UNIT 1: Current and resistance, Ohm's law, SI units of work Power and Energy, Kirchhoff's law, Mesh and Nodal analysis, Star delta transformation

UNIT 2: Superposition theorem, Thevenin's theorem Norton's theorem, maximum power transfer theorem, Sinusoidal voltage and currents, voltage- current phasor diagrams

UNIT 3: Study of series and parallel R-L, R-C, R-L-C circuits, Q- factor and band width, Concept of three phase supply and phase sequence

UNIT 4: Flux density, permeability and field strength, Faraday's law of electromagnetic induction, Construction and principle of working, e.m.f equations, electrostatic field, concept of time constant.

Books and References:

1. V. N. Mittal and Arvind Mittal; "Basic Electrical Engineering" McGraw Hill
2. Vincent DelToro, "Electrical engineering Fundamentals", PHI second edition 2011
3. Bolestaad: "Electronics Devices and Circuits Theory", Pearson Education India

Course Syllabus Prepared by: \_\_\_\_\_ Approved by: \_\_\_\_\_

Designation &amp; Dept: \_\_\_\_\_

**OUTCOMES:**

- Understand the basic concepts of magnetic circuits, electro magnetism and electrostatics.
- Analyze the AC & DC circuits.
- Understand the working principle, and applications of DC & AC machines.



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