



Bapatla Engineering College: Bapatla -522102 (Autonomous)

Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY

Department of Civil Engineering

Ref.: BEC/CE/BOS

Date: 20/06/2020

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Civil Engineering (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	Advanced optics and Material testing	20CE102/PH02	02
		Introduction Civil Engineering	20CE103	
2.	1st Year, 2nd Sem	No Change	-	00
3.	2nd Year, 3rd Sem	Surveying	20CE302	04
		Solid mechanics	20CE303	
		Fluid mechanics	20CE305	
		Mat lab programming for Civil Engineers	20CE306/ SOL01	
4.	2nd Year, 4th Sem	No Change	-	00

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : **06**

The total number of courses (up to the 2nd year only) : **35**

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : **$(06/35)*100 = 17.14\%$**



HOD, CE Dept.

Dr. Ch. NAGA SATISH KUMAR
M.Tech., Ph.D., (NTU)
Professor & Head
Civil Engineering Department
Bapatla Engineering College
BAPATLA-522 102.

**Bapatla Engineering College:: Bapatla
(Autonomous)**
Department of Civil Engineering

The following are the newly introduced courses

Sno.	Program	Course Title	Course Code	Introduced in the A.Y.
1	B.Tech-CE	Basic Electrical and Electronics engineering	14EE104	2014-2015
2	B.Tech-CE	Hardware Lab	14HWL102	2014-2015
3	B.Tech-CE	Engineering Mathematics-IV	14MA401	2014-2015
4	B.Tech-CE	Rock Mechanics	14CE506/B	2014-2015
5	B.Tech-CE	Low Cost Housing Techniques	14CE506/C	2014-2015
6	B.Tech-CE	Building Technology	14CE506/D	2014-2015
7	B.Tech-CE	Advanced surveying	14CE606/A	2014-2015
8	B.Tech-CE	Geosynthetics	14CE606/D	2014-2015
9.	B.Tech-CE	Business communication and Presentation Skills Lab	14EEL701	2014-2015
10	B.Tech-CE	Advanced Structural Analysis	14CE705/A	2014-2015
11	B.Tech-CE	Introduction to civil Engineering	18CE103	2018-2019
12	B.Tech-CE	Biology for Engineers	18CE002	2018-2019
13	B.Tech-CE	Indian Constitution	18HU001	2018-2019
14	B.Tech-CE	Technical English	18EL002	2018-2019
15	B.Tech-CE	GIS Lab	18CELS1	2018-2019
16	B.Tech-CE	Organizational Behaviour	18CE701	2018-2019
17	B.Tech-CE	Instrumentation and Sensor technology in Civil Engineering	18CED12	2018-2019
18	B.Tech-CE	Sustainable Engineering & Technology	18CED13	2018-2019
19	B.Tech-CE	Environmental Fluid Mechanics	18CED14	2018-2019
20	B.Tech-CE	Offshore Engineering	18CED22	2018-2019
21	B.Tech-CE	Disaster preparedness and planning Management	18CED23	2018-2019
22	B.Tech-CE	Construction Engineering Materials	18CED24	2018-2019
23	B.Tech-CE	Environmental Geotechnics	18CED32	2018-2019
24	B.Tech-CE	Water resources Field Methods	18CED43	2018-2019
25	B.Tech-CE	Solid and Hazardous Management	18CED54	2018-2019
26	B.Tech-CE	Town planning and Architecture	18CED64	2018-2019
27	B.Tech-CE	Port and Harbour Engineering	18CED63	2018-2019
28	M.Tech (S.E)	Design of reinforced concrete foundations	MCE/SE/612	2015-16
29	M.Tech (S.E)	Health monitoring of structures	MCE/SE/617	2015-16
30	M.Tech (S.E)	Advanced foundation Engineering	MCE/SE/619	2015-16
31	M.Tech (S.E)	Internship	MCE/SE/711	2015-16

% of Syllabus change B.Tech in the A.Y (2014-15) (R-14) = 14.28 %

% of Syllabus change B.Tech in the A.Y (2018-19) (R-18) = 25.75%

% of Syllabus Change in M.Tech A.Y (2015-16)(R-15) = 21 %

(A26) L
Head of the Department
(Signature with Seal)

HEAD OF THE DEPARTMENT
DEPARTMENT OF CIVIL ENGINEERING
BAPATLA ENGINEERING COLLEGE
BAPATLA - 522 102.



Bapatla Engineering College: Bapatla -522102 (Autonomous)
Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY
Department of Computer Science and Engineering

Date: 22/06/2020

Ref.: BEC/CSE/2020-21/2020-1

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Computer Science and Engineering (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	Discrete Mathematics	20CS206	01
3.	2nd Year, 3rd Sem	Data Structures	20CS302	02
		Linux Essentials	20CSL301/S001	
4.	2nd Year, 4th Sem	Microprocessors and microcontrollers	20CS401	02
		Database Management System	20CS403	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 05

The total number of courses (up to the 2nd year only) : 34

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(05/34)*100 = 14.70\%$

HOD, CSE Dept.



Professor & Head
Department of Computer Science & Engineering
Bapatla Engineering College
(Autonomous)



Estd.1981

Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Approved by AICTE :: Affiliated to Acharya Nagarjuna University

Department of Computer Science & Engineering

The following are the newly introduced courses

Sno.	Program	Course Title	Course Code	Introduced in the A.Y.
1.	B.Tech-CSE	Semiconductor Physics	18PH003	2018-2019
2.	B.Tech-CSE	Unix Programming Lab	18CSL31	2018-2019
3.	B.Tech-CSE	Technical English	18EL002	2018-2019
4.	B.Tech-CSE	Python Programming	18CSL41	2018-2019
5.	B.Tech-CSE	Indian Traditional Knowledge	18CS505	2018-2019
6.	B.Tech-CSE	Data Warehouse and Data Mining	18CSD12	2018-2019
7.	B.Tech-CSE	MOOCs	18CSM01	2018-2019
8.	B.Tech-CSE	Cryptograph and Network Security	18CS603	2018-2019
9.	B.Tech-CSE	Artificial Neural Networks & Deep Learning	18CSD31	2018-2019
10.	B.Tech-CSE	Network Programming	18CSD42	2018-2019
11.	B.Tech-CSE	Constitution of India	18CS706	2018-2019
12.	B.Tech-CSE	OOAD Lab	18CSL72	2018-2019
13.	B.Tech-CSE	Network Programming Lab	18CSLD42	2018-2019
14.	B.Tech-CSE	Protocols for Secure Electronic Commerce	18CSD51	2018-2019
15.	B.Tech-CSE	Blockchain Technologies	18CSD52	2018-2019
16.	B.Tech-CSE	Object Oriented Software Engineering	18CSD53	2018-2019
17.	B.Tech-CSE	Sustainable Water and Sanitation	18CEI02	2018-2019
18.	B.Tech-CSE	Application of Wavelets to Engineering Problems	18EEI01	2018-2019
19.	B.Tech-CSE	Industrial Electrical Systems	18EI102	2018-2019
20.	B.Tech-CSE	Principles & Applications of MEMS	18EI101	2018-2019
21.	B.Tech-CSE	Power System Instrumentation	18EI102	2018-2019



Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

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Estd.1981

22.	B.Tech-CSE	Fluid Power and Control Systems	18MEI01	2018-2019
23.	B.Tech-CSE	Project Management	18MEI02	2018-2019
24.	B.Tech-CSE	Linear Algebra	18MAI01	2018-2019
25.	B.Tech-CSE	Nano-Materials and Technology	18PHI01	2018-2019
26.	B.Tech-CSE	Fiber Optic Communication	18PHI02	2018-2019
27.	B.Tech-CSE	System Thinking	18HUI01	2018-2019
28.	B.Tech-CSE	Internet of Things	18ECI04	2018-2019
29.	B.Tech-CSE	High Voltage Engineering	18EEI03	2018-2019
30.	B.Tech-CSE	Energy Auditing and Conservation	18EEI04	2018-2019
31.	B.Tech-CSE	Robotics and Automation	18EI03	2018-2019
32.	B.Tech-CSE	Advanced Computer Control Systems	18EI04	2018-2019
33.	B.Tech-CSE	Non-Conventional Energy Sources	18MEI03	2018-2019
34.	B.Tech-CSE	Automobile Engineering	18MEI04	2018-2019
35.	B.Tech-CSE	Advanced Materials	18PHI03	2018-2019
36.	B.Tech-CSE	Graph Theory	18MAI02	2018-2019
37.	B.Tech-CSE	Optical Electronics	18PHI04	2018-2019
38.	B.Tech-CSE	Organizational Psychology	18HUI02	2018-2019
39.	B.Tech-CSE	Telugu Modern Literature	18HUI03	2018-2019
40.	B.Tech-CSE	English Through Media	18ELI03	2018-2019

5% of Syllabus change B.Tech in the A.Y. 2018-19 = 35%





Bapatla Engineering College: Bapatla -522102 (Autonomous)

Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY

Department of Electronics & Communication Engineering

Ref.: BEC/ECE/2/F/2020/6/14

Date: 10/06/2020

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Electronics and Communications Engineering (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	Fundamentals of Digital Electronics	20EC206	01
3.	2nd Year, 3rd Sem	Digital Logic Design	20EC305	02
		Electronic Devices Lab	20ECL32	
4.	2nd Year, 4th Sem	Analog Communication	20EC404	02
		Digital Logic Design lab	20ECL42	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 05

The total number of courses (up to the 2nd year only) : 36

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(05/36)*100 = 13.88\%$

HOD, ECE Dept.

**Bapalla Engineering College:: Bapatla
(Autonomous)**

Department of Electronics & Communication Engineering

The following are the newly introduced courses

Sno.	Program	Course Title	Course Code	Introduced in the A.Y.
1.	B.Tech-ECE	Linear Algebra and ODE	18MA001	2018-2019
2.	B.Tech-ECE	Waves and Modern Physics	18PH001	2018-2019
3.	B.Tech-ECE	Numerical Methods and Advanced Calculus	18MA002	2018-2019
4.	B.Tech-ECE	Programming with C++	18EC203	2018-2019
5.	B.Tech-ECE	Programming with C++ lab	18ECL22	2018-2019
6.	B.Tech-ECE	Probability and Statistics	18MA003	2018-2019
7.	B.Tech-ECE	Data Structures using Python	18EC302	2018-2019
8.	B.Tech-ECE	Electronic Devices and Circuits	18EC303	2018-2019
9.	B.Tech-ECE	Advanced Circuit Theory	18EC306	2018-2019
10.	B.Tech-ECE	Data structures using Python Lab	18ECL31	2018-2019
11.	B.Tech-ECE	Electronic Devices and Digital Electronics Lab	18ECL32	2018-2019
12.	B.Tech-ECE	Complex Variables and Special Functions	18MA004	2018-2019
13.	B.Tech-ECE	Electronic Circuit Analysis	18EC402	2018-2019
14.	B.Tech-ECE	Technical English	18EL002	2018-2019
15.	B.Tech-ECE	Electronic Circuits Lab	18ECL41	2018-2019
16.	B.Tech-ECE	Micro processors and Interfacing	18EC503	2018-2019
17.	B.Tech-ECE	Micro processors and Interfacing Lab	18ECL51	2018-2019
18.	B.Tech-ECE	Integrated Circuits Lab	18ECL52	2018-2019
19.	B.Tech-ECE	Programming with JAVA	18ECD13	2018-2019
20.	B.Tech-ECE	Microcontroller Programming	18EC602	2018-2019
21.	B.Tech-ECE	Microwave Engineering	18EC603	2018-2019
22.	B.Tech-ECE	Digital Communications using USRP lab	18ECL61	2018-2019
23.	B.Tech-ECE	Microcontroller Programming lab	18ECL62	2018-2019
24.	B.Tech-ECE	Digital Design using HDL	18ECD21	2018-2019
25.	B.Tech-ECE	Real Time Operating Systems	18ECD22	2018-2019
26.	B.Tech-ECE	Wireless Networks	18EC701	2018-2019
27.	B.Tech-ECE	Wireless Communications	18EC702	2018-2019
28.	B.Tech-ECE	Wireless Communications lab	18ECL72	2018-2019
29.	B.Tech-ECE	Internship	18ECII1	2018-2019
30.	B.Tech-ECE	Internet of Things	18ECD31	2018-2019
31.	B.Tech-ECE	Machine Learning	18ECD41	2018-2019
32.	B.Tech-ECE	Artificial Intelligence	18ECD42	2018-2019
33.	B.Tech-ECE	Embedded System Design	18ECD44	2018-2019

% of Syllabus change B.Tech in the A.Y. 2018-2019 = 38.3%

Head of the Department
Professor E.P. Pappu
ECE Deptt.
Bapalla Engineering College
Bapalla-522 102



Bapatla Engineering College: Bapatla -522102 (Autonomous)
Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY
Department of Electrical and Electronics Engineering

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Electrical and Electronics Engineering (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	Circuit Theory	20EE205	01
3.	2nd Year, 3rd Sem	Probability and statistics	20EE301/MA03	04
		Software tools to Electrical Engineering	20EEL301/S001	
		Measurements & Instrumentation Lab	20EEL302	
		Professional Ethics & Human Values	20EE306	
4.	2nd Year, 4th Sem	Python	20EEL401	02
		Soft Skills Lab	20EEL404	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 07

The total number of courses (up to the 2nd year only) : 35

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(07/35)*100 = 20\%$

HOD, EEE Dept.

Head of the Department
Electrical & Electronics Engg.
Bapatla Engineering College
BAPATLA - 522101.

**Bapatla Engineering College :: Bapatla
(Autonomous)
Department of EEE**

The following are the newly introduced courses

S.no	Program	Course Title	Course Code	Introduced in the A.Y.
1	B.Tech-EEE	Networks and Simulation Lab	I4EEL301	2014-2015
2	B.Tech-EEE	Analog Electronic Circuits	I4EE402	2014-2015
3	B.Tech-EEE	Signals and Systems	I4EE506(A)	2014-2015
4	B.Tech-EEE	Business Communication & Presentation Skills Lab	I4ELL701	2014-2015
5	B.Tech-EEE	Principles of power quality	I4EE803(D)	2014-2015
6	B.Tech-EEE	Renewable Energy Sources	I4EE804(D)	2014-2015
1	B.Tech-EEE	Probability and Statistics	18MA003	2018-19
2	B.Tech-EEE	Biology For Engineers	18CE002	2018-19
3	B.Tech-EEE	Indian Traditional Knowledge	18EE505	2018-19
4	B.Tech-EEE	MOOC	18EEMO	2018-19
5	B.Tech-EEE	AI Techniques in Electrical Engineering	18EE601	2018-19
6	B.Tech-EEE	IOT's in Electrical Engineering	18EE604	2018-19
7	B.Tech-EEE	Constitution of India	18EE706	2018-19
8	B.Tech-EEE	Electronics Design Lab	18EEL73	2018-19
9	B.Tech-EEE	Internship	18EEL74	2018-19
1	M.Tech-Power Systems Engineering	Electrical Smart Grids	PSE625	2015-2016
2	M.Tech-Power Systems Engineering	Summer Internship	MT/PSE711	2015-2016

% of Syllabus change B.Tech in the A.Y 2014-15 = 8.57%

% of Syllabus change B.Tech in the A.Y. 2018-19 = 13.43%

% of Syllabus Change in M.Tech /M.Sc./ MCA in the A.Y 2015-16= 10.52%



Head of the Department
(Signature with Seal)
EEE, Bapatla Engineering College
Bapatla, Andhra Pradesh - 522101.



Bapatla Engineering College: Bapatla -522102 (Autonomous)

Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY

Department of Electronics and Instrumentation Engineering

Ref.: BEC/EIE/BOS/0221/04

Date: 12/02/2021

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Electronics and Instrumentation Engineering (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	No Change	-	00
3.	2nd Year, 3rd Sem	Skill Oriented Course (Data Structures using 'C')	20EIL301/ S001	01
4.	2nd Year, 4th Sem	Skill oriented course (ARDUINO Environment)	20EIL401	01

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 02

The total number of courses (up to the 2nd year only) : 36

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(02/36)*100 = 5.55\%$

HOD, EIE Dept.

Ch. Ramesh
Prof. & H.O.D,
Dept. of Electronics & Instrumentation Engg.
BAPATLA ENGINEERING COLLEGE
BAPATLA - 522 102.

Bapatla Engineering College:: Bapatla
(Autonomous)
Department of ELECTRONICS AND INSTRUMENTATION ENGINEERING

The following are the newly introduced courses in 2018-2019

Sno.	Program	Course Title	Course Code	Introduced in the A.Y.
1	B.Tech-EI	Instrumentation & Nanotechnology	18EI203	2018-2019
2	B.Tech-EI	Basic Electrical Engineering	18EE002	2018-2019
3	B.Tech-EI	Basic Electrical Engineering Lab	18EEL01	2018-2019
4	B.Tech-EI	Simulation Lab (Net Works)	18EIL 33	2018-2019
5	B.Tech-EI	Signals and systems Lab	18EIL42	2018-2019
6	B.Tech-EI	Technical English	18EL002	2018-2019
7	B.Tech-EI	Analog Electronic Circuits- 1	18EIM04	2018-2019
8	B.Tech-EI	Analog Electronic Circuits Lab	18EIL43	2018-2019
9	B.Tech-EI	Biology for Engineers	18CE002	2018-2019
10	B.Tech-EI	Simulation Lab (Control Systems)	18EIL51	2018-2019
11	B.Tech-EI	Microcontrollers	18EIL504	2018-2019
12	B.Tech-EI	Micro Controllers Lab	18EIL53	2018-2019
13	B.Tech-EI	Constitution of India	18EI606	2018-2019
14	B.Tech-EI	MOOCS		2018-2019
15	B.Tech-EI	Summer Internship		2018-2019

% of Syllabus change B.Tech in the A.Y. = $15 \times 100 / 66 = 23\%$



Head of the Department
 (Signature with Seal)

Ch. Ramesh
 Prof. & H.O.D.
 Dept. of E.I.E.
 Bapatla Engineering College
 Savitri-522 102



Bapatla Engineering College, Bapatla - 522102 (Autonomous)

Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY

Department of Information Technology

Ref.: BEC/IT/CUR/2021/1502/02

Date: 15/02/2021

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Information Technology (up to the 2nd year only):

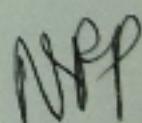
S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	Discrete Mathematics	20IT206	01
3.	2nd Year, 3rd Sem	Microprocessor and Microcontrollers	20IT301	04
		Data Structures	20IT302	
		Computer Organization	20IT305	
		Linux Essentials	20ITL301 /SO01	
4.	2nd Year, 4th Sem	No Change	-	00

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 05

The total number of courses (up to the 2nd year only) : 34

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(05/34) * 100 = 14.70\%$


HOD, IT Dept.
Head of the Department
Information Technology,
Bapatla Engineering College



Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Approved by AICTE :: Affiliated to Acharya Nagarjuna University

Estd.1981

Department of Information Technology

The Following Are The Newly Introduced Courses

S. No.	Program	Course Title	Course Code	Introduced in the A.Y.
1	B.Tech-IT	Basic Electrical & Electronics Engineering Lab	18EEL01	2018-2019
2	B.Tech-IT	Operating System Lab	18ITL33	2018-2019
3	B.Tech-IT	Signals & Systems	18IT504	2018-2019
4	B.Tech-IT	Machine Learning	18IT505	2018-2019
5	B.Tech-IT	Parallel Computing Lab	18ITDI53	2018-2019
6	B.Tech-IT	No Sql Database Lab	18ITDI53	2018-2019
6	B.Tech-IT	Artificial Intelligence Lab	18ITDL53	2018-2019
7	B.Tech-IT	MOOC	18ITM01	2018-2019
8	B.Tech-IT	Human Computer Interaction	18IT601	2018-2019
9	B.Tech-IT	Deep Learning	18IT602	2018-2019
10	B.Tech-IT	Mobile Computing	18ITD22	2018-2019
11	B.Tech-IT	Big Data Analysis	18ITD22	2018-2019
12	B.Tech-IT	Game Theory	18ITD32	2018-2019
13	B.Tech-IT	Distributed Computing	18ITD32	2018-2019
14	B.Tech-IT	Deep Learning Lab	18ITL62	2018-2019
15	B.Tech-IT	Digital Forensics	18IT702	2018-2019
16	B.Tech-IT	Constitution of India	18HU001	2018-2019
17	B.Tech-IT	Adhoc & Sensor Networks	18ITD42	2018-2019
18	B.Tech-IT	Database Security	18ITD43	2018-2019
19	B.Tech-IT	Patteren Recognition	18ITD44	2018-2019
20	B.Tech-IT	Healthcare Informatics	18ITD51	2018-2019
21	B.Tech-IT	Block Chain Technology	18ITD52	2018-2019
22	B.Tech-IT	Information Retrieval	19ITD54	2018-2019
23	B.Tech-IT	Digital Forensics Lab	18ITL72	2018-2019
24	B.Tech-IT	Internship	18ITITI	2018-2019
25	B.Tech-IT	Game Design	18ITD63	2018-2019

% of Syllabus change B.Tech in the A.Y. 2018-2019 = 27 %



NPF
Head of the Department
(Signature with Seal)



Bapatla Engineering College: Bapatla -522102 (Autonomous)

Approved by AICTE :: Affiliated to ACHARYA NAGARJUNA UNIVERSITY

Department of Mechanical Engineering

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Mechanical Engineering (up to the 2nd year only):

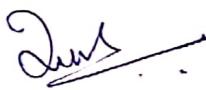
S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	No Change	-	00
3.	2nd Year, 3rd Sem	Machine Drawing lab	20MEL301	01
4.	2nd Year, 4th Sem	Fuels & Oil testing lab	20MEL402	02
		Sensors & Control	20ME406/SO	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 03

The total number of courses (up to the 2nd year only) : 36

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(03/36)*100 = 8.33\%$


HOD, ME Dept.
PROFESSOR & HEAD
Department of Mechanical Engineering
Bapatla Engineering College
Bapatla



Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Approved by AICTE :: Affiliated to Acharya Nagarjuna University

Department of Mechanical Engineering

The following are the newly introduced courses

S. No	Program	Course Title	Course Code	Introduced in the A. Y
1	B. Tech- ME	Basic Electrical & Electronics Engineering	14EE204	2014-15
2	B. Tech- ME	Hardware Lab	14HWL202	2014-15
3	B. Tech- ME	Engineering Economics & Accountancy	14ME505	2014-15
4	B. Tech- ME	Automation Technology	14ME601	2014-15
5	B. Tech- ME	Automation Lab	14MEL602	2014-15
6	B. Tech- ME	CAD/CAM	14ME704	2014-15
7	B. Tech- ME	Business Communication & Presentation Skills Lab	14MEL701	2014-15
1	B. Tech- ME	Advanced optics & Material Testing	18PH002	2018-19
2	B. Tech- ME	Numerical Methods & Advanced Calculus	18MA002	2018-19
3	B. Tech- ME	Constitution of India	18ME306	2018-19
4	B. Tech- ME	Probability and Statistics	18MA003	2018-19
5	B. Tech- ME	Essence of Indian traditional Knowledge	18ME405	2018-19
6	B. Tech- ME	Technical English	18EL002	2018-19
7	B. Tech- ME	Probability & Statistics Lab	18MAL001	2018-19
8	B. Tech- ME	Soft skills Lab	18ELL002	2018-19
9	B. Tech- ME	MOOCS		2018-19
10	B. Tech- ME	Automation in Manufacturing	18ME701	2018-19
11	B. Tech- ME	Instrumentation & Control Systems	18ME703	2018-19
12	B. Tech- ME	Internship	18MEII1	2018-19
13	B. Tech- ME	Institutional Elective-2	18ME802	2018-19
1	M. Tech (CAD/CAM)	Advanced Mechanism Design	MT/ME/CC/ MD612	2015-16
2	M. Tech (CAD/CAM)	Internship	MT/ME/CC/ MD612	2015-16



Head of the Department
PROFESSOR & HEAD
(Signature with Seal)
Department of Mechanical Engineering
Bapatla Engineering College
Bapatla, A.P.



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Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

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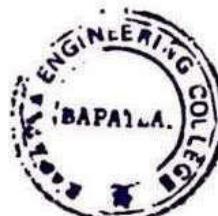
1	DME	Engineering Mathematics -II	M-301	2016-2017
2	DME	Thermal Engineering -I	M-303	2016-2017
3	DME	Production Technology-I	M-304	2016-2017
4	DME	Workshop Practice -II	M-309	2016-2017
5	DME	Engineering Materials	M-401	2016-2017
6	DME	Hydraulics&Fluid Control Systems	M-402	2016-2017
7	DME	Thermal Engineering-II	M-403	2016-2017
8	DME	Production Technology-II	M-404	2016-2017
9	DME	Design Of Machine Elements	M-405	2016-2017
10	DME	Industrial Management &Smart Technologies	M-501	2016-2017
11	DME	Industrial Engineering –Estimating And Costing	M-502	2016-2017
12	DME	CAM	M-505	2016-2017
13	DME	Non-Conventional Energy Sources And R&Ac Lab	M-507	2016-2017
14	DME	Presentation Skills Lab	M-508	2016-2017
15	DME	Workshop Practice-III	M-509	2016-2017

% of Syllabus change B. Tech inthe A.Y: 2014-15 = 10%

% of Syllabus change B. Tech in the A.Y: 2018-19 = 20%

% of Syllabus Change inM. Tech in theA.Y: 2015-16 =11%

% of Syllabus change Diploma (Mechanical) in the A.Y: 2016-17 = 31%



[Signature]
 Head of the Department
 (Signature with Seal)
PROFESSOR & HEAD
 Department of Mechanical Engineering
 Bapatla Engineering College
 Bapatla





Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Department of Computer Science and Engineering

Ref.: BEC/CSE/2020-21/2020-2

Date: 22/06/2020

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Cyber Security (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	Linear Algebra & Differential Equations	20CB101/MA01	08
		Semi-Conductor Physics	20CB102/PH03	
		Basic Electronics & Electrical Engineering	20CB103/EE01	
		Communicative English	20CB104/EL01	
		Environmental Studies	20CB105/CE01	
		Semi-Conductor Physics Lab	20CBL101/PHL02	
		Basic Electronics & Electrical Engineering Lab	20CBL102/EEL01	
		English Communication Skills Lab	20CBL103/ELL01	
2.	1st Year, 2nd Sem	Numerical Methods & Advanced Calculus	20CB201/MA02	09
		Engineering Chemistry	20CB202/CY01	
		Programming for Problem Solving	20CB203/CS01	
		Digital Logic Design	20CB204	
		Discrete Mathematical Structures	20CB205	
		Engineering Graphics	20CBL201/MEL01	
		Chemistry Lab	20CBL202/CYL01	
		Programming for Problem Solving Lab	20CBL203/CSL01	

		Workshop Practice Lab	20CBL204/MEL02	
3.	2nd Year, 3rd Sem	Probability & Statistics	20CB301/MA03	09
		Data Structures	20CB302	
		Object Oriented Programming	20CB303	
		Operating System	20CB304	
		Computer Organization	20CB305	
		Professional Ethics & Human Values	20CB306	
		Python Programming	20CBL301	
		Data Structures Lab	20CBL302	
		Object Oriented Programming Lab	20CBL303	
		Mathematical Foundations Of Security	20CB401/MA05	
4.	2nd Year, 4th Sem	Web Technologies	20CB402	08
		Database Management System	20CB403	
		Design & Analysis Of Algorithms	20CB404	
		Technical English	20CB405/EL02	
		Kali Linux Virtual Lab Setup	20CBL401/S002	
		Web Technologies Lab	20CBL402	
		RDBMS Lab	20CBL403	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 34

The total number of courses (up to the 2nd year only) : 34

The total number of courses (up to the 2nd year only) : 34

The percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : 100.00%

$$(34/34)*100 = 100.00\%$$



HOD, CSE Dept.



Professor & Head
 Department of Computer Science & Engineering
 Bapatla Engineering College
 (Autonomous)



Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Department of Computer Science and Engineering

Ref.: BEC/CSE/2020-21/2020-3

Date: 22/06/2020

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the B.Tech-Data Science (up to the 2nd year only):

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	Linear Algebra & Differential Equations	20DS101/MA01	08
		Semi-Conductor Physics	20DS102/PH03	
		Basic Electronics & Electrical Engineering	20DS103/EE01	
		Communicative English	20DS104/EL01	
		Environmental Studies	20DS105/CE01	
		Semi-Conductor Physics Lab	20DSL101/PHL02	
		Basic Electronics & Electrical Engineering Lab	20DSL102/EEL01	
		English Communication Skills Lab	20DSL103/ELL01	
2.	1st Year, 2nd Sem	Numerical Methods & Advanced Calculus	20DS201/MA02	09
		Engineering Chemistry	20DS202/CY01	
		Programming for Problem Solving	20DS203/CS01	
		Digital Logic Design	20DS204	
		Discrete Mathematical Structures	20DS205	
		Engineering Graphics	20DSL201/MEL01	
		Chemistry Lab	20DSL202/CYL01	

		Programming for Problem Solving Lab	20DSL203/CSL01	
		Workshop Practice Lab	20DSL204/MEL02	
3.	2nd Year, 3rd Sem	Probability & Statistics	20DS301/MA03	09
		Data Structures	20DS302	
		Object Oriented Programming	20DS303	
		Operating System	20DS304	
		Computer Organization	20DS305	
		Professional Ethics & Human Values	20DS306	
		Python Programming	20DSL301	
		Data Structures Lab	20DSL302	
		Object Oriented Programming Lab	20DSL303	
		Mathematical Foundation for Data Sciences	20DS401/MA06	
		Web Technologies	20DS402	
4.	2nd Year, 4th Sem	Database Management System	20DS403	08
		Design & Analysis of Algorithms	20DS404	
		Technical English	20DS405/EL02	
		R Programming Lab	20DSL401/S002	
		Web Technologies Lab	20DSL402	
		RDBMS Lab	20DSL403	

R-20 Regulation:

The number of courses where the syllabus content was changed (up to the 2nd year only) : 34

The total number of courses (up to the 2nd year only) : 34

The total number of courses (up to the 2nd year only) : 34

Percentage of the program where syllabus revision was carried out in the R-20 Regulation (up to the 2nd year only) : $(34/34)*100 = 100.00\%$


HOD CSE Dept.

Professor & Head
Department of Computer Science & Engineering
Bapalai Engineering College
(Autonomous)





Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Department of MCA

The syllabus for the following courses was changed under the R-20 Regulation, which was revised in the academic year: 2020-21 for the MCA-Master of Computer Applications:

S.No:	Year, Semester	Course Name (R-20 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	Programming and Problem Solving	MCA202	04
		Web Technologies	MCA204	
		Python Programming LAB	MCA206	
		Web Technologies LAB	MCA207	
3.	2nd Year, 3rd Sem	Machine Learning	MCA304	05
		Open Source Technologies	MCA305.2	
		Block Chain Technology	MCA305.3	
		Cryptography & Network Security LAB	MCA307	
		Technical Report Writing	MCA308	
4.	2nd Year, 4th Sem	No Change	-	00

R-20 Regulation:

The number of courses where the syllabus content was changed : 09

The total number of courses : 27

Percentage of the program where syllabus revision was carried out in the R-20 Regulation :

$$(09/27)*100 = 33.33\%$$

knp/ansd

HOD, MCA Dept.



Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Department of MCA

The syllabus for the following courses was changed under the R-19 Regulation, which was revised in the academic year: 2019-20 for the MSc-Computer Science:

S.No:	Year, Semester	Course Name (R-19 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	No Change	-	00
2.	1st Year, 2nd Sem	No Change	-	00
3.	2nd Year, 3rd Sem	Block Chain Technology	MCS 305.2	01
4.	2nd Year, 4th Sem	Internet of Things	MCS402.1	03
		Machine Learning	MCS403.1	
		Mobile Computing with Android	MCS403.2	

R-19 Regulation:

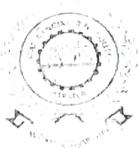
The number of courses where the syllabus content was changed : 04

The total number of courses : 33

Percentage of the program where syllabus revision was carried out in the R-19 Regulation :

$$(04/33)*100 = 12.12\%$$

HOD, MCA Dept.



Bapatla Engineering College: Bapatla -522102 (Autonomous)
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Department of Mathematics

Ref.: BEC/ MATHS /PG/SYLLABUS-001

Date: 29/09/2021

The syllabus for the following courses was changed under the R-21 Regulation, which was revised in the academic year: 2021–22 for the MSc-Mathematics:

S.No:	Year, Semester	Course Name (R-21 Regulation)	Course Code	No. of Courses
1.	1st Year, 1st Sem	Real Analysis	M102	01
2.	1st Year, 2nd Sem	No Change	-	00
3.	2nd Year, 3rd Sem	No Change	-	00
4.	2nd Year, 4th Sem	Near Rings	M403	03
		Commutative Algebra	M405(A)	
		Banach Algebra	M405(B)	

R-21 Regulation:

The number of courses where the syllabus content was changed : **04**

The total number of courses : **31**

Percentage of the program where syllabus revision was carried out in the R-21 Regulation :

$$(04/31)*100 = 12.90\%$$

P.v. Saradhi
HOD, MATHEMATICS Dept.

DEPARTMENT OF MATHEMATICS
BAPATLA ENGINEERING COLLEGE
BAPATLA - 522101



Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Departments of Chemistry

Ref.: -BEC-CHEMISTRY/SY-1/2021

Date: 18/10/2021

C I R C U L A R

This is to inform to all teaching staff and students (PG-Chemistry) that the syllabus has been revised from the academic year 2021-22 for PG courses (Organic Chemistry branch). An elective course system has been introduced into the 3rd and 4th semester as per the current need of research and industry. The overall change from the previous syllabus to the present syllabus is 23% approximately. This is for your information and requesting all staff and students to follow the revised syllabus and guidelines accordingly.



18/10/2021
HOD, CHEMISTRY



Bapatla Engineering College: Bapatla -522102 (Autonomous)

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Departments of PHYSICS

Ref.: BEC/PHY/2021-22/S/5

Date: 30/09/2021

CIRCULAR

Percentage of program where syllabus revision was carried out during the A.Y 2021-22

S.No	Semester	Subject Name (R20 Regulation)	Subject Code	No. of Subjects
1.	I-I	Mathematical Physics	PHY1.1	04
		Classical Physics	PHY1.2	
		Quantum Mechanica-1	PHY1.3	
		Analog & Digital Electronics	PHY1.4	
2.	I-II	Quantum Mechanics-2	PHY2.1	04
		Statistical Mechanics	PHY2.2	
		Computational methods	PHY2.3	
		Solid State Physics	PHY2.4	
3.	II-I	Nuclear & Particle Physics	PHY3.1	01
4.	II-II	Molecular Solid state Spectroscopy	PHY4.2	01

For R20 Regulation:

No.of subjects in where syllabus content added or replaced : 10

Total no.of subjects : 23

% of program where syllabus revision was carried out during A.Y 2021-22 : $10/23 * 100 = 43.47\%$

J.C. Ravula/Dr.
HOD, PHYSICS

Dept.



Bapatla Engineering College: Bapatla -522102 (Autonomous)

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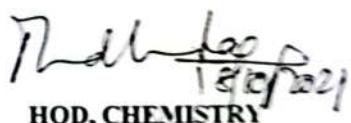
Departments of Chemistry

Ref.: BEC-CHEMISTRY/SY-2/2021

Date: 18/10/2021

CIRCULAR

This is to inform to all teaching staff and students (PG-Chemistry) that the syllabus has been revised from the academic year 2021-22 for PG courses (Analytical Chemistry branch). An elective course system has been introduced into the 3rd and 4th semester as per the current need of research and industry. The overall change from the previous syllabus to the present syllabus is 23% approximately. This is for your information and requesting all staff and students to follow the revised syllabus and guidelines accordingly.


18/10/2021
HOD, CHEMISTRY



Bapatla Engineering College: Bapatla-522102 (Autonomous)

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SECOND SHIFT POLYTECHNIC-273

Department of Civil Engineering

Date: 13/08/2020

The syllabus for the following courses was changed under the C-20 Regulation, which was revised in the academic year: 2020-21 for the Diploma-Civil Engineering:

S.No:	Year, Semester	Course Name (C-20 Regulation)	Course Code	No. of Courses
1.	1st Year	Engineering Mathematics -1	C-102	02
		Engineering Chemistry And Environmental Studies	C-104	
2.	2nd Year, 3rd Sem	Mechanics Of Solids & Theory Of Structures	C-301	03
		Surveying-II	C-304	
		Surveying-II Practice & Plotting	C-308	
3.	2nd Year, 4th Sem	Concrete & Soil Testing Practice	C-407	01
4.	3rd Year, 5th Sem	Environmental Engineering	C-502	05
		Construction Failures, Repairs & Maintenance	C-504	
		Quality Control & Safety In Construction	C-505	
		Construction Management & Entrepreneurship	C-506	
		Life Skills	C-508	
5.	3rd Year, 6th Sem	No Change	-	00

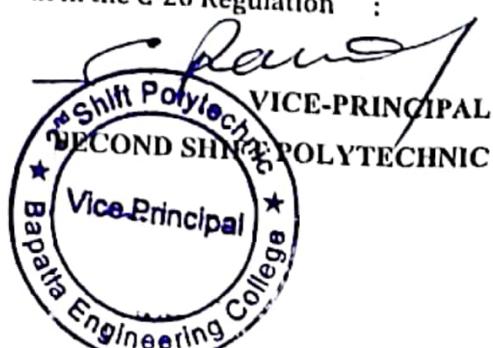
C-20 Regulation:

The number of courses where the syllabus content was changed : 11

The total number of courses : 41

Percentage of the program where syllabus revision was carried out in the C-20 Regulation :

$$(11/41) * 100 = 26.82\%$$



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SECOND SHIFT POLYTECHNIC-273

Department of Electronics and Communications Engineering

Date: 13/08/2020

The syllabus for the following courses was changed under the C-20 Regulation, which was revised in the academic year: 2020-21 for the Diploma- Electronics and Communications Engineering:

S.No:	Year, Semester	Course Name (C-20 Regulation)	Course Code	No. of Courses
1.	1st Year	Engineering Mathematics -1	EC-102	02
		Engineering Chemistry And Environmental Studies	EC-104	
2.	2nd Year, 3rd Sem	Network Analysis	EC-305	02
		Measurements & Network Analysis Lab	EC-310	
3.	2nd Year, 4th Sem	Electronic Circuits-II	EC-402	03
		Microprocessors	EC-403	
		Programming In C & MATLAB	EC-405	
4.	3rd Year, 5th Sem	Industrial Management & Smart Technologies	EC-501	05
		Microcontrollers And Applications	EC-502	
		Industrial Electronics	EC-504	
		Computer Hardware & Networking Lab	EC-509	
		Project Work	EC-510	
5.	3rd Year, 6th Sem	No Change	-	00

C-20 Regulation:

The number of courses where the syllabus content was changed : 12

The total number of courses : 41

Percentage of the program where syllabus revision was carried out in the C-20 Regulation :

$$(12/41) * 100 = 29.26\%$$





Bapatla Engineering College: Bapatla -522102 (Autonomous)
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SECOND SHIFT POLYTECHNIC-273

Department of Electrical and Electronics Engineering

Date: 13/08/2020

The syllabus for the following courses was changed under the C-20 Regulation, which was revised in the academic year: 2020-21 for the Diploma- Electrical and Electronics Engineering:

S.No:	Year, Semester	Course Name (C-20 Regulation)	Course Code	No. of Courses
1.	1st Year	Engineering Mathematics -1	EE-102	03
		Engineering Chemistry And Environmental Studies	EE-104	
		Electrical Workshop & Wiring Practice	EE-108	
2.	2nd Year, 3rd Sem	Electrical Machines-I (D.C. Machines)	EE-302	09
		Power Systems-I	EE-303	
		Electrical Circuits	EE-305	
		Electrical & Electronics Measuring Instruments	EE-304	
		Programming In C	EE-306	
		Electrical Engineering Drawing-I	EE-307	
		Programming In C Laboratory	EE-309(a)	
		Electrical CAD Lab	EE-309(b)	
		Electrical & Electronics Measuring Instruments Lab	EE-310	
		Engineering Mathematics-II	EE-401	
3.	2nd Year, 4th Sem	Power Systems-II(Transmission & Distribution)	EE-403	03
		Field Practice In Electrical Engineering	EE-409b	
		Life Skills	EE-508	
4.	3rd Year, 5th Sem	Power Systems-III(Switch Gear & Protection)	EE-503	04
		Power Electronics & Mat-lab	EE-509(b)	
		Project Work	EE-511	
5.	3rd Year, 6th Sem	No Change	-	00

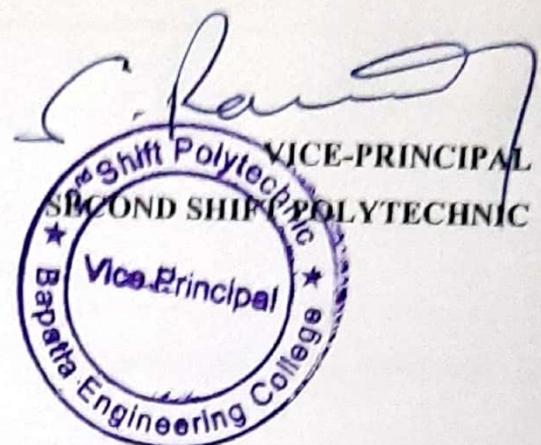
C-20 Regulation:

The number of courses where the syllabus content was changed : 19

The total number of courses : 42

Percentage of the program where syllabus revision was carried out in the C-20 Regulation :

$$(19/42) * 100 = 45.23\%$$





Bapatla Engineering College: Bapatla -522102 (Autonomous)

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SECOND SHIFT POLYTECHNIC-273

Department of Mechanical Engineering

Date: 13/08/2020

The syllabus for the following courses was changed under the C-20 Regulation, which was revised in the academic year: 2020-21 for the Diploma- Mechanical Engineering:

S.No:	Year, Semester	Course Name (C-20 Regulation)	Course Code	No. of Courses
1.	1st Year	Engineering Mathematics -1	M-102	03
		Engineering Chemistry And Environmental Studies	M-104	
		Basic Work Shop Practice	M-108	
2.	2nd Year, 3rd Sem	Basic Thermodynamics	M-304	01
3.	2nd Year, 4th Sem	Design Of Machine Members	M-402	02
		Work Shop Practice-II	M-411	
4.	3rd Year, 5th Sem	Theory Of Machines	M-503	05
		Heat Power Engineering-II	M-504	
		Life Skills	M-508	
		Refrigeration & Air Conditioning	M-509	
		Lab Practice	M-509	
		Project Work	M-510	
5.	3rd Year, 6th Sem	No Change	-	00

C-20 Regulation:

The number of courses where the syllabus content was changed : 11

The total number of courses : 43

Percentage of the program where syllabus revision was carried out in the C-20 Regulation :

$$(11/43) * 100 = 25.58\%$$



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