



# MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)

Rasipuram - 637 408. Namakkal Dt., Tamil Nadu.

## 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years

Programme Code	Programme Name	Year of Introduction	Status of Implementation of CBCS / ECS (Yes/No)	Year of Implementation of CBCS / ECS	Year of Revision (If any)	If revision has been carried out in the syllabus during last 5 years, Percentage of content added or replaced	Link to the relevant document
CE	B.E-Civil Engineering	2013	Yes	2016	2016, 2019	44.09	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Civil-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Civil-Engineering.pdf</a>
CS	B.E-Computer Science and Engineering	2000	Yes	2016	2016, 2019	62.42	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Computer-Science-and-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Computer-Science-and-Engineering.pdf</a>
EC	B.E-Electronics and Communication Engineering	2000	Yes	2016	2016, 2019	55.37	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electronics-and-Communication-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electronics-and-Communication-Engineering.pdf</a>
EE	B.E-Electrical and Electronics Engineering	2000	Yes	2016	2016, 2019	47.26	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electrical-and-Electronics-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electrical-and-Electronics-Engineering.pdf</a>
ME	B.E-Mechanical Engineering	2004	Yes	2016	2016, 2019	42.9	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Mechanical-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Mechanical-Engineering.pdf</a>
IT	B.Tech-Information Technology	2001	Yes	2016	2016, 2019	58.93	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf</a>
BM	B.E-BioMedical Engineering	2018	Yes	2018	2016, 2019	37.93	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-BioMedical-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-BioMedical-Engineering.pdf</a>
MD	B.E-Medical Electronics	2018	Yes	2018	2016, 2019	54.07	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Medical-Electronics.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Medical-Electronics.pdf</a>
BT	B.Tech-Bio Technology	2018	Yes	2018	2016, 2019	32.84	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf</a>
CH	B.Tech-Chemical Engineering	2018	Yes	2018	2016, 2019	30.43	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-Chemical-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-Chemical-Engineering.pdf</a>
AD	B.Tech.-Artificial Intelligence and Data Science	2020	Yes	2020	-	0	-
CY	B.E-Cyber Security	2020	Yes	2020	-	0	-
MZ	B.E-Mechatronics Engineering	2020	Yes	2020	-	0	-

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Programme Code	Programme Name	Year of Introduction	Status of Implementation of CBCS / ECS (Yes/No)	Year of Implementation of CBCS / ECS	Year of Revision (if any)	If revision has been carried out in the syllabus during last 5 years, Percentage of content added or replaced	Link to the relevant document
RA	B.E-Robotics and Automation	2020	Yes	2020		0	
MC	M.E-Computer Science and Engineering	2005	Yes	2016	2016, 2019	69.49	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Computer-Science-and-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Computer-Science-and-Engineering.pdf</a>
CO	M.E-Communication System	2013	yes	2016	2016, 2019	5.64	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Communication-System.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Communication-System.pdf</a>
VL	M.E-VLSI Design	2007	Yes	2016	2016, 2019	5.13	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-VLSI-Design.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-VLSI-Design.pdf</a>
PSE	M.E-Power Systems Engineering	2006	Yes	2016	2016, 2019	5.88	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Power-Systems-Engineering.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-Power-Systems-Engineering.pdf</a>
CAD	M.E-CAD/CAM	2012	Yes	2016	2016, 2019	16.67	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-CAD-CAM.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.E-CAD-CAM.pdf</a>
MB	Master of Business Administration	2004	Yes	2016	2016, 2019	5.26	<a href="https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.B.A-Master-of-Business-Administration.pdf">https://mec.edu.in/naac/cycle2/Criterion-1/1.1/1.1.2/M.B.A-Master-of-Business-Administration.pdf</a>
MCA	Masters of Computer Application	2020	Yes	2020		0	

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## B.E. - Civil Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English for Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	-	-	19HSS02	English Communicative Skills Laboratory	100
4	-	-	19HSS01	Business English	100
5	-	-	19HSS03	Life Skills and Workplace Psychology	100
6	16SHB01	Matrices, Calculus and Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
7	16SHB02	Complex Variables, Laplace Transforms and Vector Calculus	19BSS21	Algebra and Calculus	0
8	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transform and Partial Differential Equations	0
9	16SHB06	Numerical Methods	19BSS26	Numerical Methods	0
10	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
11	16SHB22	Material Science	19BSS04	Material Sciences	0
12	-	-	19BSS03	Bio and Nanomaterials Sciences	100
13	-	-	19BSS02	Physics and Chemistry Laboratory	100
14	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
15	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
16	16CEC03	Basics of Civil and Mechanical Engineering	19GES06	Mechanical and Building Sciences	0
17	16CEC04	Basics of Electrical and Electronics Engineering	19GES05	Electrical and Electronic sciences	0

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18	16CEC05	Engineering Drawing	19GES26	Engineering Drawing	0
19	16CEC07	Engineering Geology	19GES27	Engineering Geology	0
20	16CEC08	Engineering Mechanics	19GES28	Engineering Mechanics	0
21	16CEC09	Construction Materials	19GES18	Construction Materials	0
22	16CEC15	Remote Sensing and GIS	19GES35	Remote Sensing and GIS	0
23	-	-	19GES07	Computer Aided Drafting Laboratory	100
24	16CED01	Mechanics of Solids	19CEC01	Mechanics of Solids	0
25	16CED02	Strength of Materials	19CEC02	Strength of Materials	0
26	16CED03	Structural Analysis I	19CEC03	Structural Analysis	75
27	16CED04	Structural Analysis II	-	-	-
28	16CED05	Design of Steel Structures	19CEC04	Design of Steel Structures	0
29	16CED06	Estimation and Quantity Surveying	19CEC05	Estimation and Quantity Surveying	0
30	16CED07	Mechanics of Fluids	19CEC06	Mechanics of Fluids	0
31	16CED08	Surveying I	19CEC07	Surveying	75
32	16CED09	Surveying II	-	-	-
33	16CED10	Concrete Technology	-	-	-
34	16CED11	Soil Mechanics	19CEC08	Geotechnical Engineering	20
35	16CED12	Applied Hydraulic Engineering	-	-	-
36	16CED13	Design of Reinforced Concrete Elements	19CEC09	Design of Reinforced Concrete Elements	0
37	16CED14	Water Supply Engineering	19CEC10	Water Supply Engineering	0
38	16CED15	Foundation Engineering	-	-	-
39	16CED16	Highway Engineering	19CEC11	Highway Engineering	0
40	16CED17	Design of Reinforced Concrete Structures	-	-	-
41	16CED18	Waste Water Engineering	-	-	-
42	16CED19	Public Health and Irrigation Engineering Drawing	-	-	-

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43	16CED20	Prestressed Concrete Structures	-	-	-
44	16CED21	Seismic design of Structures	-	-	-
45	16CED22	Irrigation Engineering	-	-	-
46	16CED23	Computer Aided Building Drawing	19CEC19	Computer Aided Design and Drafting Laboratory	20
47	16CED24	Survey Camp	19CEC18	Survey Camp	0
48	16CED25	Prefabricated Structures	-	-	-
49	-	-	19CEC13	Surveying Laboratory	100
50	-	-	19CEC14	Strength of Materials Laboratory	100
51	-	-	19CEC15	Hydraulic Engineering Laboratory	100
52	-	-	19CEC16	Geotechnical Engineering Laboratory	100
53	-	-	19CEC17	Concrete and Highway Engineering Laboratory	100
54	-	-	19CEC20	Environmental Engineering Laboratory	100
55	16CEE01	Hydrology	19CEE20	Hydrology	0
56	16CEE02	Pavement Engineering	19CEE25	Pavement Engineering	0
57	16CEE03	Construction Planning and Management	19CEE28	Construction Planning and Management	0
58	16CEE04	Traffic Engineering and Safety Transport	19CEE26	Traffic Engineering and Safety Transport	10
59	16CEE05	Housing Planning and Management	19CEE29	Housing Planning and Management	0
60	16CEE06	Environmental Impact Assessment in Civil Engineering Project	19CEE14	Environmental Impact Assessment in Civil Engineering Project	0
61	16CEE07	Municipal Solid Waste Management	19CEE16	Municipal Solid Waste Management	0
62	16CEE08	Water Resources Engineering	19CEE21	Water Resources Engineering	0
63	16CEE09	Industrial Waste Management	19CEE17	Industrial Waste Management	0
64	16CEE10	Air Pollution and Management	19CEE18	Air Pollution and Management	0
65	16CEE11	Industrial Structures	19CEE04	Industrial Structures	0
66	16CEE12	Health Monitoring of Structures	19CEE05	Health Monitoring of Structures	0

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67	16CEE13	Engineering Economics and Cost Analysis	19CEE30	Engineering Economics and Cost Analysis	0
68	16CEE14	Ground Improvement Techniques	19CEE13	Ground Improvement Techniques	20
69	16CEE15	Building Services	19CEE06	Building Services	0
70	16CEE16	Smart Materials and Smart Structures	19CEE07	Smart Materials and Smart Structures	10
71	16CEE17	Ground Water Engineering	19CEE22	Ground Water Engineering	0
72	16CEE18	Construction Technology	19CEE03	Construction Technology	0
73	16CEE19	Railways, Airports and Harbour Engineering	19CEE27	Railways, Airports and Harbour Engineering	0
74	-	-	19CEE01	Advanced Structural Analysis	100
75	-	-	19CEE08	Concrete Technology	100
76	-	-	19CEE09	Seismic Design of Structures	100
77	-	-	19CEE10	Prefabricated Structures	100
78	-	-	19CEE11	Prestressed Concrete Structures	100
79	-	-	19CEE12	Foundation Engineering	100
80	-	-	19CEE15	Waste Water Engineering	100
81	-	-	19CEE19	Public Health and Irrigation Engineering Drawing	100
82	-	-	19CEE23	Irrigation Engineering	100
83	-	-	19CEE24	Applied Hydraulic Engineering	100
84	-	-	19CEE27	Railways ,Airports and Harbour Engineering	100
85	-	-	19EEE09	Total Quality Management	100
86	-	-	19EEE15	Wind and Solar Energy Systems	100
87	-	-	19MEE18	Power Plant Engineering	100
88	-	-	19MEE10	Composite Materials	100
89	-	-	19MEE02	Principles of Management	100
90	-	-	19MEF10	Maintenance Engineering	100

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91	-	-	19MEE12	Energy Conservation in Industry	100
92	-	-	19CHE05	Disaster Management	100
93	-	-	19ECE25	Internet of Things	100
94	-	-	19CSE18	Soft Computing Techniques	100
95	16CEF01	Project work Phase -I	19CEG02	Project work	50
96	16CEF02	Project work Phase -II	-	-	-
97	16CEF03	Comprehensive Skill	19CEG05	Comprehension	0
98	16CEF04	Design Project	19CEG01	Design Project	0
99	-	-	19CEG03	Value Added Course	100
100	-	-	19CEG04	Inplant Training (Four Weeks In VI Sem Summer)	100
101	-	-	19CEG06	Technical Seminar	100
<b>Average</b>					<b>44.09</b>

  
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**Dr. V. RAJENDRAN, M.E., Ph.D.**  
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 BOARD OF STUDIES,  
 DEPARTMENT OF CIVIL ENGINEERING,  
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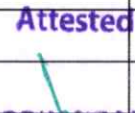
## B.E-Computer Science and Engineering Percentage of Syllabus Revision

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	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English For Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	16SHA03	Business English	19HSS01	Business English	0
4	16SHA04	Basics of Japanese	19HSS06	Basics of Japanese Language	0
5	-	-	19HSS02	English Communicative Skills Laboratory	100
6	-	-	19HSS03	Life Skills and Workplace Psychology	100
7	16SHB01	Matrices, Calculus and Ordinary Differential Equations	19BSS21	Algebra and Calculus	0
8	16SHB02	Complex variables, Laplace Transforms and Vector Calculus	19BSS22	Differential Equations and Vector Analysis	0
9	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transforms and Partial Differential Equations	0
10	16SHB04	Probability and Random Processes	19BSS27	Probability and Random Processes	0
11	16SHB05	Probability and Queuing Theory	-	-	
12	16SHB06	Numerical Methods	19BSS26	Numerical Methods	0
13	16SHB07	Statistics and Numerical Methods	19BSS28	Statistic and Numerical Methods	0
14	16SHB08	Discrete Mathematics	-	-	
15	16SHB09	Operations Research	-	-	
16	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
17	-	-	19BSS02	Physics and Chemistry Laboratory	100

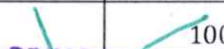
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18	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
19	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
20	-	-	19BSS24	Discrete Mathematics	100
21	-	-	19BSS25	Statistical and Queuing Model	100
22	16CSC01	Fundamentals of Computing and Programming	-	-	
23	16CSC02	Advanced C Programming	-	-	
24	16CSC03	Basics of Civil and Mechanical Engineering	-	-	
25	16CSC04	Basics of Electrical and Electronics Engineering	-	-	
26	16CSC05	Engineering Graphics	-	-	
27	16CSC06	Engineering Practices for Computer Sciences	-	-	
28	16CSC07	Electrical Drives and Control	19GES21	Electrical Drives and Control	0
29	16CSC08	Engineering Mechanics	19GES28	Engineering Mechanics	0
30	16CSC09	Microprocessor and Microcontrollers	-	-	
31	16CSC10	Object Oriented Programming	19CSC06	Object Oriented Programming	50
32	16CSC11	Data Structures	19CSC01	Data Structures and Algorithms	20
33	-	-	19CSC02	Data Structures Lab Using C++ Lab	100
34	16CSC12	Electron Devices	-	-	
35	16CSC13	Circuit Theory	-	-	
36	16CSC14	Digital Principles and System Design	19GES24	Digital Principles and System Design	0
37	16CSC15	Fundamentals of Nanoscience	-	-	
38	-	-	19GES01	Programming for Problem Solving Using C	100
39	-	-	19GES03	Programming in C Laboratory	100
40	-	-	19GES08	Python Programming	100
41	-	-	19GES09	Programming in Python Laboratory	100
42	-	-	19GES19	Concepts in Product Design	100

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43	16CSD01	Advanced Java Programming	-	-	
44	16CSD02	Design and Analysis of Algorithms	19CSC11	Design and Analysis of Algorithms	10
45	16CSD03	Database Management Systems	19CSC03	Database Management Systems	30
46	-	-	19CSC04	Database Management Systems Lab	100
47	16CSD04	Object Oriented Software Engineering	-	-	
48	16CSD05	Operating Systems	19CSC09	Operating Systems`	20
49	-	-	19CSC10	Operating Systems Lab	100
50	16CSD06	Object Oriented Analysis and Design	19CSC23	Object Oriented Analysis and Design	40
51	-	-	19CSC24	Case Tools Lab	100
52	16CSD07	Computer Networks	19CSC07	Computer Networks	0
53	-	-	19CSC08	Computer Networks Lab	100
54	16CSD08	Principles of Compiler Design	19CSC20	Compiler Design	10
55	-	-	19CSC21	Compiler Design Lab	100
56	16CSD09	Cryptography and Network Security	19CSC25	Cryptography and Network Security	0
57	-	-	19CSC26	Cryptography and Network Security Lab	100
58	16CSD10	System Software	-	-	
59	16CSD11	Theory of Computation	19CSC17	Theory of Computation	0
60	16CSD12	Computer Architecture	19CSC05	Computer Organization and Architecture	20
61	16CSD13	Computer Graphics	19CSE11	Computer Graphics	50
62	16CSD15	Advanced Data Structure	-	-	
63	16CSD16	Internet Programming	19CSE09	Internet Programming	50
64	16CSD17	Python Programming	-	-	
65	-	-	19CSC12	Software Engineering	100
66	-	-	19CSC13	Service Oriented Architecture	100
67	-	-	19CSC16	Data Analytics using R and Python	100

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70	-	-	19CSC27	Big Data Analytics	100
71	-	-	19CSC28	Animation: Theory and Practice	100
72	-	-	19SC30	Data Analytics and Modeling Techniques	100
73	16CSE01	C# and .Net Framework	19CSE33	C# and .NET Core	40
74	16CSE02	Software Project Management	-	-	
75	16CSE03	Software Testing	-	-	
76	16CSE04	Artificial Intelligence	-	-	
77	16CSE05	Ethical Hacking and Cyber Security	-	-	
78	16CSE06	Soft computing	-	-	
79	16CSE07	Real Time Systems	-	-	
80	16CSE08	Information Storage Management	-	-	
81	16CSE09	Advanced Computer Architecture	-	-	
82	16CSE10	High Speed Networks	-	-	
83	16CSE11	Graph Theory	-	-	
84	16CSE12	Advanced Database Technology	-	-	
85	16CSE13	Digital Image Processing	-	-	
86	16CSE14	Machine Learning Techniques	19CSC29	Machine Learning Techniques	0
87	16CSE15	4G Technologies	-	-	
88	16CSE16	Total Quality Management	-	-	
89	16CSE17	Cloud Computing	19CSC18	Cloud Computing	80
90	-	-	19CSC19	Cloud Computing Lab	100
91	16CSE18	Mobile Computing	19CSC14	Mobile Communication	0
92	-	-	19CSC15	Mobile Application Lab	100
93	16CSE19	Salesforce CRM and Platform	19CSE03	Salesforce CRM and Platform	0
94	-	-	19CSE04	Salesforce CRM and Platform Lab	0

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95	16CSE20	Introduction to Internet of Things	19CSE01	Internet of Things	60
96	-	-	19CSE02	Internet of Things Lab	100
97	16CSE21	Programming in JAVA	-	-	
98	-	-	19CSE05	AWS Academy Cloud Developing	100
99	-	-	19CSE06	AWS Academy Cloud Developing Lab	100
100	-	-	19CSE07	AWS Academy Cloud Architecting	100
101	-	-	19CSE08	AWS Academy Cloud Architecting Lab	100
102	-	-	19CSE10	Current Practices in Software Engineering	100
103	-	-	19CSE12	Distributed Programming	100
104	-	-	19CSE13	Enterprise Project Development using FOSS	100
105	-	-	19CSE14	Parallel Computing	100
106	-	-	19CSE15	Kernel Programming	100
107	-	-	19CSE16	Soft Computing Techniques	100
108	-	-	19CSE17	Virtual Reality	100
109	-	-	19CSE18	Storage infrastructure Management	100
110	-	-	19CSE19	Total Quality Management	100
111	-	-	19CSE20	Cloud infrastructure services	100
112	-	-	19CSE21	Graphics and multimedia	100
113	-	-	19CSE22	Graphics and multimedia laboratory	100
114	-	-	19CSE23	Data warehousing and data mining	100
115	-	-	19CSE24	Software quality assurance	100
116	-	-	19CSE25	Network and routing protocols	100
117	-	-	19CSE26	Scaling and connecting networks	100
118	-	-	19CSE27	Open stack essentials	100
119	-	-	19CSE28	Software Defined Networks	100

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120	-	-	19CSE29	Docker and Kubernetes	100
121	-	-	19CSE30	Blockchain	100
122	-	-	19CSE31	User Centric Design	100
123	-	-	19CSE32	Node.js and React.js	100
124	-	-	19CSE34	Agile Methodology	100
125	-	-	19CSE35	Text Mining	100
126	-	-	19CSE36	Angular JS	100
127	-	-	19CSE37	Deep Learning	100
128	-	-	16CSE38	Ubiquitous Computing	100
129	16CSF01	Project work-Phase I	19CSP01	Project work-Phase I	0
130	16CSF02	Project work -Phase II	19CSP02	Project work-Phase II	0
131	16CSF03	Comprehension	19CSP03	Comprehension	0
132	16CSF04	Design Project	-	-	
133	16CSF05	Technical Seminar	19CSP04	Technical Seminar	0
134	16CSF06	Entrepreneurship Development	19CSP05	Entrepreneurship Development	0
135	16CSF07	Soft Skills	-	-	
136	16CSF08	Professional Practices	19CSP06	Professional Practices	0
<b>Average</b>					<b>62.42</b>

  
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**Chairman**  
**Board of Studies**  
**Department of Computer Science and Engineering**  
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## B.E.- Electronics and Communication Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English For Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	16SHA03	Business English	19HSS01	Business English	0
4	16SHA04	Basics of Japanese	19HSS06	Basics of Japanese Language	0
5	16SHA05	Functional Japanese	-	-	
6	16SHA06	Basics of German	-	-	
7	16SHA07	Functional German	-	-	
8	16SHA08	Principles of Management and Engineering Ethics	-	-	
9	-	-	19HSS02	English Communicative Skills Laboratory	100
10	-	-	19HSS03	Life Skills and Workplace Psychology	100
11	16SHB01	Matrices, Calculus and Ordinary Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
12	16SHB02	Complex variables, Laplace Transforms and Vector Calculus	19BSS21	Algebra and Calculus	0
13	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transforms and Partial Differential Equations	0
14	16SHB04	Probability and Random Processes	-	-	-
15	16SHB05	Probability and Queuing Theory	-	-	-
16	16SHB06	Numerical Methods	-	-	-

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17	16SHB07	Statistics and Numerical Methods	-	-	-
18	16SHB08	Discrete Mathematics	-	-	-
19	16SHB09	Operations Research	-	-	-
20	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
21	16SHB22	Material Science	-	-	-
22	16SHB23	Physics for Electrical Engineering	-	-	-
23	16SHB24	Physics for Mechanical Engineering	-	-	-
24	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
25	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
26	-	-	19BSS02	Physics and Chemistry Laboratory	100
27	-	-	19BSS03	Bio and Nanomaterials Sciences	100
28	-	-	19BSS25	Statistical and Queuing Model	100
29	16ECC01	Fundamentals of Computing and Programming	-	-	-
30	16ECC02	Advanced C Programming	-	-	-
31	16ECC03	Basics of Civil and Mechanical Engineering	19GES06	Mechanical and Building Sciences	0
32	16ECC04	Basics of Electrical and Electronics Engineering	-	-	-
33	16ECC05	Engineering Graphics	-	-	-
34	16ECC06	Engineering Practices for Electrical Sciences	-	-	-
35	16ECC07	Electrical Drives and Control	-	-	-
36	16ECC08	Engineering Mechanics	-	-	-
37	16ECC09	Microprocessor and Microcontrollers	-	-	-
38	16ECC10	Object Oriented Programming	-	-	-
39	16ECC11	Data Structures	19GES32	Data Structures using Python	80
40	16ECC12	Electron Devices	19GES11	Electronic Devices	5

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41	16ECC13	Circuit Theory	-	-	-
42	16ECC14	Digital Principles and System Design	-	-	-
43	16ECC15	Fundamentals of Nano Technology	-	-	-
44	-	-	19GES02	Programming for Problem Solving Technique	100
45	-	-	19GES03	Programming in C Laboratory	100
46	-	-	19GES09	Programming in Python Laboratory	100
47	-	-	19GES10	Soft Skills Laboratory	100
48	-	-	19GES12	Electronic Simulation Laboratory	100
49	-	-	19GES19	Concepts in Product Design	100
50	16ECD01	Signals and Systems	19ECC02	Signals and Systems	5
51	16ECD02	Digital Electronics	19ECC04	Digital System Design	5
52	16ECD03	Electromagnetic Fields	19ECC05	Electromagnetic Fields	40
53	16ECD04	Analog Electronics - I	-	-	-
54	16ECD05	Analog Electronics -II	-	-	-
55	16ECD06	Linear Integrated Circuits	-	-	-
56	16ECD07	Communication Theory	19ECC06	Analog Communication Systems	40
57	16ECD08	Transmission Line and Waveguides	-	-	-
58	16ECD09	Digital Signal Processing	19ECC09	Digital Signal Processing	5
59	16ECD10	Digital Communication	19ECC10	Digital Communication Systems	30
60	16ECD11	Computer Architecture and organization	19ECE24	Computer Architecture and organization	0
61	16ECD12	Embedded System	19ECC15	Embedded Systems & RTOS	100
62	16ECD13	Antennas and Wave Propagation	19ECC08	Antenna Systems Engineering	0
63	16ECD14	VLSI Design	19ECC12	VLSI Circuit Design	10
64	16ECD15	Computer Networks	19ECC13	Computer Networks	15

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65	16ECD16	Digital Image Processing	19ECC17	Digital Image Processing	10
66	16ECD17	RF and Microwave Engineering	19ECC11	Microwave Engineering	40
67	16ECD18	Optical Fiber Communication	19ECE16	Optical Fiber Communication	40
68	16ECD19	Electromagnetic Interference And Compatibility	19ECE02	Electromagnetic Interference And Compatibility	30
69	16ECD20	Cellular Mobile Communication	-	-	-
70	16ECD21	Control Systems	19ECC14	Control Engineering	5
71	-	-	19ECC03	Analog Electronics	100
72	-	-	19ECC01	Electric Network Analysis and Machines	100
73	-	-	19ECC07	Microcontroller Based System Design	50
74	-	-	19ECC16	NEMS and MEMS Technology	100
75	-	-	19ECC18	Analog Electronics Laboratory	100
76	-	-	19ECC19	Digital System Design Laboratory	100
77	-	-	19ECC20	Analog Communication Systems Laboratory	100
78	-	-	19ECC21	Microcontroller Based System Design Laboratory	100
79	-	-	19ECC22	Signal Processing Laboratory	100
80	-	-	19ECC23	Digital Communication Systems Laboratory	100
81	-	-	19ECC24	Microwave Engineering Laboratory	100
82	-	-	19ECC25	VLSI Design Laboratory	100
83	-	-	19ECC26	Embedded Systems Laboratory	100
84	-	-	19ECC27	Digital Image Processing Laboratory	100
85	16ECE01	Radar and Navigational Aids	19ECE01	Radar and Navigational Aids	20
86	16ECE02	High Speed Networks	19ECE04	High Speed Networks	50
87	16ECE03	Wireless Sensor Networks	19ECE05	Wireless Sensor Networks	40
88	16ECE04	Biomedical Engineering	19ECE09	Biomedical Engineering	0

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89	16ECE05	Bio Signal and Image Processing	19ECE10	Bio Signal and Image Processing	50
90	16ECE06	Telecommunication Switching Systems	19ECE06	Telecommunication Switching Networks	80
91	16ECE07	Cognitive Radio Networks	19ECE07	Cognitive Radio Networks	70
92	16ECE08	RF MEMS	-	-	-
93	16ECE09	Soft Computing	19ECE13	Soft Computing	5
94	16ECE10	Nano Electronics	19ECE19	Nanoelectronics	50
95	16ECE11	Wireless Communication	19ECE14	Wireless Communication	40
96	16ECE12	Satellite Communication	19ECE15	Satellite Communication	10
97	16ECE13	Television and Video Engineering	-	-	-
98	16ECE14	Optoelectronic Devices	19ECE18	Optoelectronic Devices	0
99	16ECE15	Mobile Ad-Hoc Networks	19ECE08	Mobile Ad-Hoc Networks	60
100	16ECE16	Internet and JAVA Programming	-	-	-
101	16ECE17	Architecture and Programming	-	-	-
102	16ECE18	Pattern Recognition and AI Techniques	19ECE12	Pattern Recognition and AI Techniques	100
103	16ECE19	Biometrics	-	-	-
104	16ECE20	Embedded Solutions Engineering	-	-	-
105	-	-	19ECE11	Bio Sensors & Bio MEMS	100
106	-	-	19ECE17	AI and Machine Learning	100
107	-	-	19ECE20	ASIC Design	100
108	-	-	19ECE21	Low Power VLSI Design	100
109	-	-	19ECE22	Reconfigurable Computing using FPGAs	100
110	-	-	19ECE23	System on Chip Design	100
111	-	-	19ECE25	Internet of Things	100
112	-	-	19ECE26	Automotive Electronics	100

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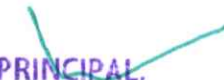
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113	-	-	19ECE27	Electronic Instrumentations and Measurement Techniques	100
114	16ECF01	Project Work Phase - I	19ECP01	Project Work Phase - I	0
115	16ECF02	Project Work Phase -II	19ECP02	Project Work Phase -II	0
116	16ECF03	Comprehension	-	-	
117	16ECF04	Design Project	-	-	
118	16ECF05	Technical Seminar	19ECP03	Presentation Skill and Technical Seminar	0
119	-	-	19ECP04	Internship	100
<b>Average</b>					<b>55.37</b>



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## B.E.- Electrical and Electronics Engineering Percentage of Syllabus Revision

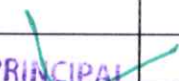
Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English for Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	-	-	19HSS02	English Communicative Skills Laboratory	100
4	-	-	19HSS01	Business English	100
5	-	-	19HSS03	Life Skills and Workplace Psychology	100
6	16SHB01	Matrices, Calculus and Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
7	16SHB02	Complex Variables, Laplace Transforms and Vector Calculus	19BSS21	Algebra and Calculus	0
8	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transform and Partial Differential Equations	0
9	16SHB06	Numerical Methods	19BSS26	Numerical Methods	0
10	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
11	16SHB22	Material Science	19BSS04	Material Sciences	0
12	-	-	19BSS03	Bio and Nanomaterials Sciences	100
13	-	-	19BSS02	Physics and Chemistry Laboratory	100
14	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
15	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
16	16EEC01	Fundamentals of Computing and Programming	-	-	-
17	16EEC02	Advanced C Programming	19GES03	Programming in C Laboratory	0
18	-	-	19GES02	Programming for Problem Solving Technique	100

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19	-	-	19GES09	Programming in Python Laboratory	100
20	16EEEC03	Basic of Civil and Mechanical Engineering	19GES06	Mechanical and Building Sciences	0
21	16EEEC04	Basics of Electrical and Electronics Engineering	19GES05	Electrical and Electronic Sciences	0
22	16EEEC05	Engineering Graphics	19GES26	Engineering Drawing	0
23	16EEEC06	Engineering Practices for Electrical Sciences	-	-	-
24	-	-	19GES19	Concepts in Product Design	0
25	16EEEC07	Electrical Drives and Controls	19GES21	Electrical Drives and Control	0
26	-	-	19GES22	Electrical Drives and Control Laboratory	0
27	16EEEC08	Engineering Mechanics	19GES28	Engineering Mechanics	0
28	16EEEC09	Microprocessors and Microcontrollers	19GES30	Electronics and Microprocessor	0
29	-	-	19GES31	Electronics and Microprocessor Laboratory	-
30	-	-	19EEEC25	Micro-computing based system design Laboratory	100
31	16EEEC10	Object Oriented Programming	-	-	-
32	16EEEC11	Data Structures	-	-	-
33	16EEEC12	Electronic Devices and Circuits	19GES33	Electronic Devices and Circuits	0
34	-	-	19GES34	Electronic Devices and Circuits Laboratory	100
35	-	-	19GES11	Electronic Devices	100
36	-	-	19GES12	Electronic Simulation Laboratory	100
37	16EEEC13	Circuit Theory	19GES13	Electric Circuits	80
38	-	-	19GES14	Electric Circuits Laboratory	100
39	16EEEC14	Digital Principles and System Design	19GES24	Digital Principles and System Design	0
40	-	-	19GES25	Digital Principles and System Design Laboratory	100
41	16EEEC15	Fundamental of Nano-science and Technology	-	-	-
42	16EED01	Measurement and Instrumentation	19EEEC02	Measuring Instruments	0
43	16EED02	Network Analysis and Synthesis	19EEEC15	Network Analysis and Synthesis	20
44	16EED03	Electromagnetic Theory	19EEEC01	Electromagnetic Fields	0

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45	16EED04	DC Machines and Transformers	19EEC04	DC Machines and Transformers	0
46	-	-	19EEC20	DC machines and Transformers Laboratory	100
47	16EED05	AC Machines	19EEC05	AC Machines	0
48	-	-	19EEC21	AC Machines Laboratory	100
49	16EED06	Control systems	19EEC06	Control Systems	75
50	-	-	19EEC22	Control Systems Laboratory	100
51	16EED07	Power Electronics	19EEC07	Power Electronics	80
52	-	-	19EEC23	Power Electronics Laboratory	100
53	16EED08	Linear Integrated Circuits and Its Applications	19EEC03	Linear Integrated Circuits	80
54	16EED09	Design of Electrical Apparatus	-	-	-
55	16EED10	Transmission and Distribution	19EEC12	Transmission and Distribution	80
56	16EED11	Power System Analysis	19EEC10	Power System Analysis	65
57	-	-	19EEC24	Power System Simulation Laboratory	100
58	16EED12	Solid State Drives	19EEC08	Electrical Drives	100
59	16EED13	Power System Operation and Control	19EEC11	Operation and Control of Electrical Power Systems	90
60	16EED14	High Voltage Engineering	19EEC14	High Voltage Engineering	75
61	16EED15	Power System Protection and Switchgear	19EEC13	Protection and switchgear	85
62	16EED16	Energy Conservation and Energy Auditing	-	-	-
63	16EEE01	Advanced Control Theory	-	-	-
64	16EEE02	Electrical System Design and Estimation	-	-	-
65	16EEE03	Power Semiconductor Devices	-	-	-
66	16EEE04	Computer Aided Analysis and Design of Electrical Apparatus	-	-	-
67	16EEE05	Smart Grid	19EEC16	Smart Grid	85
68	16EEE06	Power system Stability	19EEE02	Power System Stability	80
69	16EEE07	High Voltage Direct Current Transmission	19EEE07	HVDC Transmission Systems	0
70	16EEE08	Soft Computing Technique	-	-	-

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71	16EEE09	Flexible AC Transmission Systems	19EEE06	Flexible AC Transmission Systems	0
72	16EEE10	Power Quality	19EEE11	Power Quality	0
73	16EEE11	Special Electrical Machines	19EEE04	Special Electrical Machines	0
74	16EEE12	Power System Transients	19EEC18	Power System Transients	0
75	16EEE13	Power Electronics for Renewable Energy Systems	19GES20	Renewable Energy Sources	80
76	16EEE14	Switched Mode Power Conversion	-	-	-
77	16EEE15	VLSI Design	19EEE10	VLSI Design	0
78	16EEE16	Robotics	19EEE16	Robotics	0
79	16EEE17	PLC and Automation	19EEC17	PLC and Automation	0
80	16EEE18	Virtual Instrumentation	-	-	-
81	16EEE19	Communication Engineering	19EEE03	Communication Engineering	0
82	16EEE20	Total Quality Management	19EEE09	Total Quality Management	0
83	16EEE21	Power Plant Engineering	19EEE08	Power Plant Engineering	0
84	16EEE22	Embedded Systems	-	-	-
85	16EEE23	Control of electric drives with PLC- SCADA controllers	-	-	-
86	16EEE24	Control of electric drives with digital controllers	-	-	-
87	16EEF01	Project work – Phase-I	19EES01	Project work - I	0
88	16EEF02	Project work – Phase-II	19EES02	Project Work II & Dissertation	0
89	16EEF0	Comprehension	19EES03	Comprehension	0
90	16EEF04	Design Project	-	-	-
91	16EEF05	Presentation Skill and Technical Seminar	19EES04	Presentation Skill and Technical Seminar	0
92	-	-	19EEE01	Intellectual Property Rights	100
93	-	-	19EEE05	Design of Electrical Apparatus	100
94	-	-	19EEE12	Emerging Intelligent Techniques	100
95	-	-	19EEE13	Electric Energy Utilization and Conservation	100
96	-	-	19EEE14	DC Micro Grid	100

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97	-	-	19EEC09	Micro-computing based system design	100
98	-	-	19EEE15	Wind and Solar Energy Systems	100
99	-	-	19EEE17	Fiber Optics	100
100	-	-	19EEE18	Human Computer Interaction	100
101	-	-	19EEE19	Electrical Hybrid Vehicles	100
<b>Average</b>					<b>47.26</b>

  
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## B.E.- Mechanical Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA04	Basics of Japanese	19HSS06	Basics of Japanese Language	70
2	-	-	19HSS02	English Communicative Skills Laboratory	100
3	-	-	19HSS01	Business English	100
4	-	-	19HSS03	Life Skills and Workplace Psychology	100
5	-	-	19BSS02	Physics and Chemistry Laboratory	100
6	-	-	19BSS16	Organic Chemistry Laboratory	100
7	-	-	19BSS17	Physical Chemistry Laboratory	100
8	-	-	19GES16	Manufacturing Process Laboratory	100
9	-	-	19GES17	Mechanical and Building Sciences Laboratory	-
10	-	-	19GES19	Concepts in Product Design	100
11	16MED01	Computer Aided Drafting and Modeling Laboratory	19MEC22	Assembly Drawing and Modeling Laboratory	0
12	16MED02	Machine Drawing	-	-	-
13	16MED03	Engineering Materials and Metallurgy	19MEC01	Engineering Materials and Metallurgy	0
14	16MED04	Engineering Thermodynamics	19MEC02	Engineering Thermodynamics	0
15	16MED05	Fluid Mechanics and Machinery	19MEC03	Fluid Mechanics and Machinery	0
16	16MED06	Mechatronics	19MEE03	Mechatronics	0
17	16MED07	Strength of Materials	19MEC04	Strength of Materials	0
18	16MED08	Kinematics of Machinery	19MEC05	Kinematics of Machines	0
19	16MED09	Manufacturing Technology	19MEC06	Manufacturing Technology	20
20	16MED10	Applied Hydraulics and Pneumatics	19MEC14	Applied Hydraulics and Pneumatics	0
21	16MED11	Thermal Engineering	19MEC07	Thermal Engineering	0
22	16MED12	Automobile Engineering	19MEC08	Automobile Engineering	0
23	16MED13	Heat and Mass Transfer	19MEC09	Heat and Mass Transfer	0
24	16MED14	Design of Machine Elements	19MEC10	Design of Machine Elements	0

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25	16MED15	Gas Dynamics and Jet Propulsion	19MEC15	Gas Dynamics and Jet Propulsion	0
26	16MED16	Dynamics of Machines	19MEC11	Dynamics of Machines	0
27	16MED17	Design of Transmission Systems	19MEC25	Design of Transmission Systems	0
28	16MED18	Computer Aided Design	19MEC12	Computer Aided Design and Manufacturing	20
29	16MED19	Metrology and Measurements	19MEC13	Metrology and Measurements	0
30	16MEE20	Power Plant Engineering	-	-	-
31	16MED21	Finite Element Analysis	19MEC16	Finite Element Analysis	0
32	16MED22	Engineering Economics and Cost analysis	-	-	-
33	16MED23	Total Quality Management	19MEC26	Total Quality Management	0
34	16MED24	Principles of Management	19MEE02	Principles of Management	0
35	16MED25	Computer Integrated Manufacturing systems	-	-	-
36	-	-	19MEC17	Fluid Mechanics and Machinery Laboratory	100
37	-	-	19MEC18	Manufacturing Technology Laboratory	100
38	-	-	19MEC19	Strength of Materials Laboratory	100
39	-	-	19MEC20	Measurements Laboratory	100
40	-	-	19MEC21	Heat and Mass Transfer Laboratory	100
41	-	-	19MEC23	Thermal Engineering Laboratory	100
42	-	-	19MEC24	Dynamics of Machines Laboratory	100
43	16MEE01	Design of jigs, fixtures and Press Tools	19MEE14	Design of jigs, fixtures and Press Tools	0
44	16MEE02	Refrigeration and Air conditioning	19MEE09	Refrigeration and Air conditioning	0
45	16MEE03	Advanced IC Engines	19MEE06	Advanced IC Engines	0
46	16MEE04	Computational Fluid Dynamics	19MEE11	Computational Fluid Dynamics	0
47	16MEE05	Thermal Turbo Machines	-	-	-
48	16MEE06	Vibration and Noise Control	19MEE08	Vibration and Noise Control	0
49	16MEE07	Design of Pressure Vessel and Piping	19MEE05	Design of Pressure Vessel and Piping	0
50	16MEE08	Quality Control and Reliability Engineering	-	-	-
51	16MEE09	Unconventional Machining Processes	19MEE01	Advanced Machining Processes	0
52	16MEE10	Maintenance Engineering	-	-	-
53	16MEE11	Process Planning and Cost Estimation	-	-	-
54	16MEE12	Flexible Manufacturing Systems	-	-	-
55	16MEE13	Composite Materials	19MEE10	Composite Materials	0
56	16MEE14	Industrial robotics	19MEE07	Industrial Automation & Robotics	0
57	16MEE15	Micro Electro Mechanical Systems	19MEE20	MEMS	0
58	16MEE16	Advanced Manufacturing Systems	-	-	-

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59	16MEE17	Additive Manufacturing Techniques	-	-	-
60	16MEE18	Lean Manufacturing	19MEE16	Lean Manufacturing	0
61	16MEE20	Power Plant Engineering	19MEE18	Power Plant Engineering	0
62	-	-	19MEE12	Energy Conservation in Industry	100
63	-	-	19MEE15	Cryogenic Engineering	100
64	-	-	19MEE17	Advanced Metrology	100
65	-	-	19MEE19	Artificial Intelligence	100
66	-	-	19MEE21	Welding Technology	100
67	-	-	19MEE04	Automotive Electronics	100
68	-	-	19MEE13	Additive Manufacturing Techniques	100
69	16MEF07	Project work Phase -I	19MES01	Project work Phase -I	0
70	16MEF02	Project work Phase -II	19MES02	Project work Phase -II	0
71	16MEF03	Comprehension	19MES03	Value Added Course /Internship	100
72	16MEF04	Design and Fabrication Project	19MES04	Inter Disciplinary Project	50
73	-	-	19MES05	Constitution of India and professional Ethics	100
74	-	-	19MES06	Essence of Indian Traditional Knowledge	100
75	16SHA08	Principles of Management and Engineering Ethics	-	-	-
76	16SHB32	Environmental Science and Engineering	-	-	-
<b>Average</b>					<b>42.90</b>

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## B.Tech-Information Technology Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHB01	Matrices, Calculus and Ordinary Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
2	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transforms and Partial Differential Equations	0
3	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
4	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
5	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
6	16SHB02	Complex variables, Laplace Transforms and Vector	19BSS21	Algebra and Calculus	0
7	16ITD05	Operating Systems	19ITC09	Operating Systems	0
8	16ITD10	Computer Organization	19ITC06	Computer Organization and Architecture	0
9	16ITD03	Database Management Systems	19ITC03	Database Management Systems	0
10	16ITC11	Data Structures	19ITC01	Data Structures	0
11	16ITC10	Object Oriented Programming	19ITC07	Object Oriented Programming	0
12	16ITD08	Principles of Compiler Design	19ITC18	Principles of Compiler Design	0
13	16ITC14	Digital Principles and System Design	19GES24	Digital Principles and System Design	0
14	16ITF01	Project work - Phase I	19ITP01	Project work - Phase I	0
15	16ITF02	Project work - Phase II	19ITP02	Project Work II	0
16	16ITD07	Computer Networks	19ITC24	Computer Networks	0
17	16ITD16	Wireless Communication	19GES29	Wireless Communication	0

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18	16ITD02	Design and Analysis of Algorithms	19ITC11	Design and Analysis of Algorithms	0
19	16ITE04	Artificial Intelligence	19ITC17	Artificial Intelligence	0
20	16ITD04	Object Oriented Software Engineering	19ITC05	Software Engineering	0
21	16ITD13	Mobile and Pervasive Computing	19ITC13	Mobile Communication	0
22	16MED23	Total Quality Management	19MEC26	Total Quality Management	0
23	16ITE14	Data Warehousing and Data Mining	19ITC22	Data Warehousing and Data Mining	0
24	16SHA01	Technical English	-	-	
25	16SHA02	Communicative English	-	-	
26	16SHB05	Probability and Queuing Theory	-	-	
27	16SHB22	Material Science	-	-	
28	16ITC01	Fundamentals of Computing and Programming	-	-	
29	16ITC02	Advanced C Programming	-	-	
30	16ITC04	Basics of Electrical and Electronics Engineering	-	-	
31	16ITC05	Engineering Graphics	-	-	
32	16ITC06	Engineering Practices for Computer Sciences	-	-	
33	16ITC09	Microprocessor and Microcontrollers	-	-	
34	16ITD01	Advanced Java Programming	-	-	
35	16ITD06	Object Oriented Analysis and Design	-	-	
36	16ITD09	Cryptography and Network Security	-	-	
37	16ITD11	Computer Graphics and Multimedia	-	-	
38	16ITD12	Analog and Digital Communication	-	-	
39	16ITD19	Distributed Systems	-	-	
40	16ITF03	Comprehension	-	-	
41	16ITF04	Design Project	-	-	
42	-	-	19HSS02	English Communicative Skills Laboratory	100

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43	-	-	19HSS01	Business English	100
44	-	-	19HSS03	Life Skill and Work Place Pyschology	100
45	-	-	19HSS08	Professional Ethics and Human Values	100
46	-	-	19BSS03	Bio and Nano materials Sciences	100
47	-	-	19BSS02	Physics and Chemistry Laboratory	100
48	-	-	19BSS24	Discrete Mathematics	100
49	-	-	19GES01	Programming for Problem Solving Using C	100
50	-	-	19GES03	Programming in C Laboratory	100
51	-	-	19GES06	Mechanical and Building Sciences	100
52	-	-	19GES08	Python Programming	100
53	-	-	19GES09	Programming in Python Lab	100
54	-	-	19GES10	Soft Skills Lab	100
55	-	-	19GES19	Concepts in Product Design	100
56	-	-	19GES23	Analog and Digital Communication	100
57	-	-	19GES25	Digital Principles and System Design Laboratory	100
58	-	-	19ITC02	Data Structures Laboratory	100
59	-	-	19ITC04	Database Management Systems Laboratory	100
60	-	-	19ITC08	Object Oriented Programming Laboratory	100
61	-	-	19ITC10	Operating Systems Laboratory	100
62	-	-	19ITC12	Blockchain Technology	100
63	-	-	19ITC15	Internet of Things	100
64	-	-	19ITC16	Internet of Things Laboratory	100
65	-	-	19ITC19	Compiler Design Laboratory	100
66	-	-	19ITC20	Cloud Computing	100
67	-	-	19ITC21	Cloud Computing Laboratory	100

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68	-	-	19ITC23	Information security	100
69	-	-	19ITE03	Elective I – Salesforce CRM and Platform	100
70	-	-	19ITE04	Elective I – Salesforce CRM and Platform Laboratory	100
71	-	-	19ITE26	Elective III-Docker and Kubernetes	100
72	-	-	19ITE33	Elective V-Machine Learning	100
73	-	-	19MEE07	Open Elective I-Industrial Robotics	100
74	-	-	19MEE18	Open Elective II-Power Plant Engineering	100
<b>Average</b>					<b>58.93</b>

  
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## B.E-BioMedical Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English For Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	16SHA03	Business English	19HSS01	Business English	0
4	16SHA04	Basics of Japanese	19HSS06	Basics of Japanese Language	0
5	16SHA05	Functional Japanese	-	-	
6	16SHA06	Basics of German	-	-	
7	16SHA07	Functional German	-	-	
8	16SHA08	Principles of Management and Engineering Ethics	-	-	0
9	-	-	19HSS02	English Communicative Skills Laboratory	100
10	-	-	19HSS03	Life Skills and Workplace Psychology	100
11	16BMD01	Anatomy and Human Physiology	19BMC01	Anatomy and Human Physiology	0
12	16BMD03	Bio Medical Instrumentation and Measurements	19BMC02	Biomedical Sensors & Instruments	0
13	16BMD04	Digital Electronics	19BMC03	Digital Electronics	0
14	16BMD05	Signals and Systems	19BMC04	Signals and Systems	0
15	16BMD06	Therapeutic Equipments	-	-	
16	-	-	19BMC05	Biomechanics & Rehabilitation Engineering	100
17	16BMD07	Bio Control System	19BMC06	Bio Control System	0

  
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18	16BMD08	Analog Electronics	19BMC07	Analog Electronics	0
19	16BMD09	Linear Integrated Circuits	19BMC09	Linear Integrated Circuits	0
20	-	-	19BMC08	Microprocessor and Microcontrollers In Medicine	100
21	16BMD10	Human Assist Devices	-	-	0
22	16BMD11	Pathology and Microbiology	-	-	0
23	-	-	19BMC10	Biochemistry	100
24	16BMD12	Hospital Management	19BMC11	Hospital Management	0
25	16BMD14	Digital Signal Processing	19BMC12	Biomedical Instrumentation	0
26	-	-	19BMC13	Medical Signal Processing	100
27	16BMD15	Embedded System	19BMC14	Embedded System	0
28	16BMD17	Digital Image Processing	-	-	
29	-	-	19BMC15	Therapeutic Equipments	100
30	16BMD18	Medical Imaging Techniques	19BMC17	Medical Imaging Techniques	0
31	-	-	19BMC16	Digital Image Processing	100
32	16BMD19	Electrical Safety and Quality Assurance	19BMC18	Electrical Safety and Quality Assurance	0
33	-	-	19BMC19	Human Assist Devices	100
34	-	-	19BMC20	Bio Medical Sensors and Instruments Laboratory	100
35	-	-	19BMC21	Digital Electronics Laboratory	100
36	-	-	19BMC22	Analog Electronics Laboratory	100
37	-	-	19BMC23	Linear Integrated Circuits Laboratory	100
38	-	-	19BMC24	Medical Signal Processing Laboratory	100
39	-	-	19BMC25	Pathology and Microbiology Laboratory	100
40	-	-	19BMC26	Biomedical Instrumentation Laboratory	100
41	-	-	19BMC27	Pathology and Microbiology	100
42	-	-	19BMC28	Embedded System Laboratory	100

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43	-	-	19BMC29	Computer Networks	100
44	-	-	19BMC30	Microprocessor and Microcontrollers Laboratory	100
45	16BME01	Advanced Bio Analytical And Therapeutic Techniques	19BME01	Advanced Bio Analytical And Therapeutic Techniques	0
46	16BME02	Bio Signal Processing	19BME02	Bio Signal Processing	0
47	16BME03	Biomaterials and Artificial Organs	19BME03	Biomaterials and Artificial Organs	0
48	16BME04	Biomedical Engineering	19BME04	Biomedical Engineering	0
49	16BME05	Biomaterials and Characterization	19BME05	Biomaterials and Characterization	0
50	16BME06	Body Area Networks	19BME06	Body Area Networks	0
51	16BME07	Brain Computer Interface and Applications	19BME07	Brain Computer Interface and Applications	0
52	16BME08	Medical Optics	19BME08	Medical Optics	0
53	16BME09	Soft Computing	19BME09	Soft Computing	0
54	16BME10	Neural Engineering	19BME10	Neural Engineering	0
55	16BME11	Physiological Modeling	19BME11	Physiological Modeling	0
56	16BME12	Multimedia Compression and Networks	-	-	
57	16BME13	Rehabilitation Engineering	-	-	
58	16BME14	Virtual Reality	19BME13	Virtual Reality	0
59	16BME15	Wearable Systems	19BME14	Wearable Systems	0
60	16BME16	Internet and JAVA Programming	-	-	
61	16BME17	Cryptography and Network Security	-	-	
62	16BME18	Hospital Waste Management	19BME12	Hospital Waste Management	0
63	16BME19	Medical Physics	19BME15	Medical Physics	0
64	16BME20	Computer Architecture and organization	-	-	
65	16BMF01	Project Work Phase - I	19BMS01	Project Work Phase - I	0
66	16BMF02	Project Work Phase -II	19BMS02	Project Work Phase -II	0
67	16BMF05	Hospital Training	-	-	

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68	-	-	19BMS03	Comprehension	100
69	-	-	19BMS04	Design Project	100
<b>Average</b>					<b>37.93</b>



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## B.E-Medical Electronics Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English For Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	16SHA03	Business English	19HSS01	Business English	0
4	16SHA04	Basics of Japanese	19HSS06	Basics of Japanese Language	0
5	16SHA05	Functional Japanese	-	-	
6	16SHA06	Basics of German	-	-	
7	16SHA07	Functional German	-	-	
8	16SHA08	Principles of Management and Engineering Ethics	-	-	
9	-	-	19HSS02	English Communicative Skills Laboratory	100
10	-	-	19HSS03	Life Skills and Workplace Psychology	100
11	16MDD01	Anatomy and Human Physiology	19MDC01	Human Anatomy & Physiology	20
12	16MDD02	Sensors and Measurements	-	-	
13	16MDD03	Bio Medical Instrumentation and Measurements	19MDC02	Biomedical sensors & Measurement Devices	0
14	-	-	19MDC04	Logic Circuits for Clinical Engineers	100
15	16MDD04	Digital Electronics	19MDC18	Digital Electronics	0

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16	-	-	19MDC05	Control system for Physiology Systems	100
17	16MDD05	Signals and Systems	19MDC03	Bio Signals & Systems	0
18	-	-	19MDC06	Biomaterials and Artificial Organs	100
19	16MDD06	Therapeutic Equipments	19MDC13	Therapeutic Equipments	0
20	16MDD07	Bio Control System	-	-	
21	16MDD08	Analog Electronics	-	-	
22	16MDD09	Linear Integrated Circuits	-	-	
23	16MDD10	Human Assist Devices	-	-	
24	16MDD11	Pathology and Microbiology	-	-	
25	16MDD12	Hospital Management	19MDC11	Hospital Management	0
26	16MDD13	Bio MEMS	-	-	
27	16MDD14	Digital Signal Processing	-	-	
28	16MDD15	Embedded System	-	-	
29	16MDD17	Digital Image Processing	-	-	
30	16MDD18	Medical Imaging Techniques	-	-	
31	-	-	-	-	
32	-	-	19MDC07	Pathology and Microbiology	100
33	-	-	19MDC08	Microprocessor and Microcontroller in medicine	100
34	-	-	19MDC09	Biomechanics and Rehabilitation Engineering	100
35	-	-	19MDC10	Biomedical Instrumentation	100
36	-	-	19MDC14	Orthotic & Prosthetic Equipments	100
37	-	-	19MDC15	Electrical Safety and Quality Assurance	100
38	-	-	19MDC16	Principles of Radiological Equipments	100
39	-	-	19MDC17	Medical Signal Processing	100

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40	-	-	19MDC12	Medical Expert Systems	100
41	-	-	19MDC19	Logic Circuits for Clinical Laboratory	100
42	-	-	19MDC20	Medical Signal Processing Laboratory	100
43	-	-	19MDC21	Medical Expert systems Laboratory	100
44	-	-	19MDC22	Pathology and Microbiology Laboratory	100
45	-	-	19MDC23	Biomedical sensors & Measurement Laboratory	100
46	-	-	19MDC24	Medical Image Processing Laboratory	100
47	-	-	19MDC25	Analog Electronics	100
48	-	-	19MDC26	Analog Electronics Laboratory	100
49	-	-	19MDC27	Microprocessor and Microcontroller Laboratory	100
50	16MDE01	Advanced Bio Analytical And Therapeutic Techniques	19MDE01	Advanced Bio Analytical and Therapeutic Techniques	0
51	16MDE02	Bio Signal Processing	-	-	
52	16MDE03	Biomaterials and Artificial Organs	-	-	
53	-	-	19MDE02	Tissue Engineering	100
54	-	-	19MDE03	Medical Science	100
55	16MDE04	Biomedical Engineering	-	-	
56	16MDE05	Biomaterials and Characterization	19MDE04	Biomaterials and Characterization	0
57	16MDE06	Physiological Modeling	19MDE05	Physiological Modeling	0
58	16MDE07	Brain Computer Interface and Applications	19MDE06	Brain Computer Interface and Applications	0
59	16MDE08	Medical Optics	19MDE07	Medical Optics	0
60	16MDE09	Soft Computing	19MDE08	Soft Computing	0
61	16MDE10	Intellectual Property Rights	-	-	
62	16MDE11	Physiological Modeling	-	-	
63	16MDE12	Skills in Integrated Product Development	-	-	

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64	16MDE13	Rehabilitation Engineering	-	-	
65	16MDE14	Virtual Reality	19MDE09	Virtual Reality	0
66	16MDE15	Wearable Systems	19MDE10	Wearable Systems	0
67	16MDE16	Internet of Things	19MDE11	Internet of Things	0
68	16MDE17	Medical Expert System	-	-	
69	16MDE18	Hospital Waste Management	19MDE12	Hospital Waste Management	0
70	16MDE19	Tele health Technology	19MDE13	Tele health Technology	0
71	16MDE20	Fiber optics and Lasers in Medicine	19MDE14	Fiber optics and Lasers in Medicine	0
72	16MDF01	Project Work Phase - I	19MDP01	Project Work Phase - I	0
73	16MDF02	Project Work Phase -II	19MDP2	Project Work Phase -II	0
74	16MDF04	Hospital Training	19MHT1	Hospital Training	0
75	-	-	19MDH01	Organizational Behavior	100
76	-	-	19MDH02	India Constitution (Common to All Branches)	100
77	-	-	19MDH03	Essence of Indian Traditional Knowledge	100
78	-	-	19MMP01	Mini Project/Electronic Design workshop	100
<b>Average</b>					<b>54.07</b>



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## B.Tech-Bio Technology Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English for Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	-	-	19HSS02	English Communicative Skills Laboratory	100
4	-	-	19HSS01	Business English	100
5	-	-	19HSS03	Life Skills and Workplace Psychology	100
6	16SHB01	Matrices, Calculus and Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
7	16SHB02	Complex Variables, Laplace Transforms and Vector Calculus	19BSS21	Algebra and Calculus	0
8	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transform and Partial Differential Equations	0
9	16SHB06	Numerical Methods	19BSS26	Numerical Methods	0
10	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
11	16SHB22	Material Science	19BSS04	Material Sciences	0
12	-	-	19BSS03	Bio and Nanomaterials Sciences	100
13	-	-	19BSS02	Physics and Chemistry Laboratory	100
14	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
15	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
16	16BTC03	Basics of Civil and Mechanical Engineering	19GES06	Mechanical and Building Sciences	0
17	16BTC04	Basics of Electrical and Electronics Engineering	19GES05	Electrical and Electronic sciences	0

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18	16BTC05	Engineering Drawing	19GES26	Engineering Drawing	0
19	16BTC08	Engineering Mechanics	19GES28	Engineering Mechanics	0
20	16BTD01	Biochemistry	19BTC01	Biochemistry	0
21	-	-	19BTC18	Biochemistry Laboratory	100
22	16BTD02	Bioorganic Chemistry	-	-	
23	16BTD03	Basic Industrial Biotechnology	19BTC04	Basic Industrial Biotechnology	0
24	16BTD04	Cell & Microbiology	-	-	
25	-	-	19BTC02	Microbiology	50
26	-	-	19BTC19	Microbiology Laboratory	100
27	-	-	19BTC03	Cell Biology	50
28	16BTD05	Immunology	19BTC16	Immunology	0
29	-	-	19BTC27	Immunology Laboratory	100
30	16BTD06	Bioprocess Principles	-	-	
31	-	-	19BTC06	Fundamentals of Bioprocess	100
32	16BTD07	Fundamentals of Unit Operation	-	-	
33	-	-	19BTC07	Basics of Unit Operation	100
34	16BTD08	Instrumental methods of analysis	19BTC08	Instrumental Methods of Analysis	0
35	-	-	19BTC20	Instrumental Methods of Analysis Laboratory	100
36	16BTD09	Bioprocess Engineering	19BTC09	Bioprocess Engineering	0
37	-	-	19BTC23	Bioprocess Engineering Laboratory	100
38	16BTD10	Protein Engineering	-	-	
39	16BTD11	Molecular Biology	19BTC05	Molecular Biology	0
40	-	-	19BTC21	Molecular biology Laboratory	100
41	16BTD12	Mass Transfer Operations	19BTC11	Mass Transfer Operations	0
42	16BTD13	Genetic Engineering	19BTC10	Genetic Engineering	0


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43	-	-	19BTC22	Genetic Engineering Laboratory	100
44	16BTD14	Bioinformatics	19BTC13	Bioinformatics	0
45	-	-	19BTC25	Bioinformatics Laboratory	100
46	16BTD15	Applied Chemical Reaction Engineering	-	-	
47	-	-	19BTC14	Chemical Reaction Engineering	100
48	-	-	19BTC24	Chemical Reaction Engineering Laboratory	100
49	16BTD16	Biopharmaceutical Technology	-	-	
50	-	-	19BTC12	Health and Pharmaceutical Biotechnology	100
51	16BTD17	Downstream Processing	19BTC15	Downstream Processing	0
52	-	-	19BTC26	Downstream Processing Laboratory	100
53	16BTD18	Cancer Biology	-	-	
54	16BTD19	Disaster Management	-	-	
55	16BTE01	Food technology	19BTE01	Food technology	0
56	16BTE02	Animal Biotechnology	19BTE02	Animal Biotechnology	0
57	16BTE03	Chemistry of Medicines	19BTE03	Chemistry of Medicines	0
58	16BTE04	Life Style Diseases	19BTE04	Life Style Diseases	0
59	16BTE05	Intellectual Property Rights	19BTE05	Intellectual Property Rights	0
60	16BTE06	Biofuel	19BTE06	Biofuel	0
61	16BTE07	Fundamentals of Nanoscience	19BTE07	Fundamentals of Nanoscience	0
62	16BTE08	Plant Biotechnology	19BTE08	Plant Biotechnology	0
63	16BTE09	Process Equipments and Plant Design	19BTE09	Process Equipments and Plant Design	0
64	16BTE10	Neurobiology and Conginitive sciences	19BTE10	Neurobiology and Conginitive sciences	0
65	16BTE11	Tissue Engineering	19BTE11	Tissue Engineering	0
66	16BTE12	Biosafety and Hazard Management	19BTE12	Biosafety and Hazard Management	0
67	16BTE13	Stem cell Technology	19BTE13	Stem cell Technology	0

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68	16BTE14	Biophysics	19BTE14	Biophysics	0
69	16BTE15	Biological Spectroscopy	19BTE15	Biological Spectroscopy	0
70	16BTE16	Bioentrepreneurship	19BTE16	Bioentrepreneurship	0
71	16BTE17	Professional Ethics in Engineering	19BTE17	Professional Ethics in Engineering	0
72	16BTE18	Marine Biotechnology	19BTE18	Marine Biotechnology	0
73	16BTE19	Metabolic Engineering	19BTE19	Metabolic Engineering	0
74	16BTE20	Human Rights	19BTE20	Human Rights	0
75	-	-	19BTE21	Protein Engineering	100
76	-	-	19BTE22	Bioethics and IPR	100
77	16BTF01	Interpersonal Skills / Listening and Speaking	-	-	
78	16BTF04	Mini Project	19BTF01	Project work – Phase-I	0
79	16BTF05	Project Work	19BTF02	Project work – Phase-II	0
<b>Average</b>					<b>32.84</b>

  
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## B.Tech-Chemical Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16SHA01	Technical English	19HSS04	Technical English for Engineers	0
2	16SHA02	Communicative English	19HSS05	Communicative English for Engineers	0
3	-	-	19HSS02	English Communicative Skills Laboratory	100
4	-	-	19HSS01	Business English	100
5	-	-	19HSS03	Life Skills and Workplace Psychology	100
6	16SHB01	Matrices, Calculus and Differential Equations	19BSS22	Differential Equations and Vector Analysis	0
7	16SHB02	Complex Variables, Laplace Transforms and Vector Calculus	19BSS21	Algebra and Calculus	0
8	16SHB03	Transforms and Partial Differential Equations	19BSS23	Transform and Partial Differential Equations	0
9	16SHB06	Numerical Methods	19BSS26	Numerical Methods	0
10	16SHB21	Engineering Physics	19BSS01	Engineering Physics	0
11	16SHB22	Material Science	19BSS04	Material Sciences	0
12	-	-	19BSS03	Bio and Nanomaterials Sciences	100
13	-	-	19BSS02	Physics and Chemistry Laboratory	100
14	16SHB31	Engineering Chemistry	19BSS11	Engineering Chemistry	0
15	16SHB32	Environmental Science and Engineering	19BSS12	Environmental Science and Engineering	0
16	16CHC03	Basics of Civil and Mechanical Engineering	19GES06	Mechanical and Building Sciences	0
17	16CHC04	Basics of Electrical and Electronics Engineering	19GES05	Electrical and Electronic sciences	0

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18	16CHC05	Engineering Drawing	19GES26	Engineering Drawing	0
19	16CHC08	Engineering Mechanics	19GES28	Engineering Mechanics	0
20	16CHC16	Organic Chemistry	19BSS13	Organic Chemistry	0
21	-	-	19BSS16	Organic Chemistry Laboratory	100
22	16CHC17	Physical Chemistry	19BSS14	Physical Chemistry	0
23	-	-	19BSS17	Physical Chemistry Laboratory	100
24	16CHD01	Mechanics of Solids	19CHC05	Mechanics of solids	0
25	16CHD02	Fluid Mechanics	19CHC02	Fluid Mechanics	0
26	-	-	19CHC17	Fluid Mechanics Laboratory	100
27	16CHD03	Chemical Engineering Thermodynamics I	19CHC06	Chemical Engineering Thermodynamics I	0
28	16CHD04	Chemical Engineering Thermodynamics II	19CHC10	Chemical Engineering Thermodynamics II	0
29	16CHD05	Chemical Process Calculations	19CHC01	Chemical Process Calculations	0
30	16CHD06	Instrumental Methods of Analysis	19CHC04	Instrumental Methods of Analysis	0
31	-	-	19CHC18	Instrumental Methods of Analysis Laboratory	100
32	16CHD07	Mechanical Operations	19CHC09	Mechanical Operations	0
33	-	-	19CHC20	Mechanical Operations Laboratory	100
34	16CHD08	Heat transfer	19CHC07	Heat transfer	0
35	-	-	19CHC19	Heat Transfer Laboratory	100
36	16CHD09	Chemical Reaction Engineering I	19CHC12	Chemical Reaction Engineering I	0
37	-	-	19CHC22	Chemical Reaction Engineering Laboratory	100
38	16CHD10	Mass Transfer - I	19CHC08	Mass Transfer - I	0
39	-	-	19CHC21	Mass Transfer Laboratory	100
40	16CHD11	Material Technology for Process Industries	-	-	
41	16CHD12	Process Dynamics and Control	19CHC15	Process Dynamics and Control	0
42	-	-	19CHC24	Process Dynamics and Control Laboratory	100

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43	16CHD13	Mass Transfer - II	19CHC11	Mass Transfer - II	0
44	16CHD15	Process Modeling and Simulation	19CHC14	Process Modeling and Simulation	0
45	-	-	19CHC23	Process Modeling and Simulation Laboratory	100
46	16CHD16	Total Quality Management	-	-	
47	16CHD17	Transport Phenomena	19CHC13	Transport Phenomena	0
48	16CHD18	Chemical Process Plant Safety	-	-	
49	16CHD19	Process Equipment Design Laboratory	-	-	
50	-	-	19CHC16	Chemical Reaction Engineering II	100
51	-	-	19CHC03	Chemical Process Industries	100
52	16CHE01	Enzyme Engineering	19CHE01	Enzyme Engineering	0
53	16CHE02	Petroleum Refining and Petrochemicals	19CHE02	Petroleum Refining and Petrochemicals	0
54	16CHE03	Food Technology	19CHE03	Food Technology	0
55	16CHE04	Polymer Technology	19CHE04	Polymer Technology	0
56	16CHE05	Disaster Management	19CHE05	Disaster Management	0
57	16CHE06	Air Pollution and Control	19CHE06	Air Pollution and Control	0
58	16CHE07	Waste Water Treatment	19CHE07	Waste Water Treatment	0
59	16CHE08	Electrochemical Engineering	19CHE08	Electrochemical Engineering	0
60	16CHE09	Modern Separation Techniques	19CHE09	Modern Separation Techniques	0
61	16CHE10	Optimization of Chemical Processes	19CHE10	Optimization of Chemical Processes	0
62	16CHE11	Environmental Engineering	19CHE11	Environmental Engineering	0
63	16CHE12	Process Plant Utilities	19CHE12	Process Plant Utilities	0
64	16CHE13	Fermentation Engineering	19CHE13	Fermentation Engineering	0
65	16CHE14	Pulp and Paper Technology	19CHE14	Pulp and Paper Technology	0
66	16CHE15	Energy Technology	19CHE15	Energy Technology	0
67	16CHE16	Drugs and Pharmaceutical Technology	19CHE16	Drugs and Pharmaceutical Technology	0

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68	-	-	19CHE17	Chemical Process Plant Safety	100
69	16CHF01	Project work – Phase-I	19CHF01	Project work – Phase-I	0
70	16CHF02	Project work – Phase-II	19CHF02	Project work – Phase-II	0
71	-	-	19CHM01	Organizational Behaviour	100
72	-	-	19CHM02	India Constitution	100
73	-	-	19CHM03	Essence of Indian Traditional Knowledge	100
<b>Average</b>					<b>30.43</b>

  
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## M.E-Computer Science and Engineering Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16MCA01	Advanced Numerical Methods	19MCA01	Advanced Numerical Methods	0
2	16MCA02	Applied Mathematics	19MCA02	Applied Mathematics	0
3	16MCA03	Applied Probability And Statistics	19MCA03	Applied Probability And Statistics	0
4	16MCB01	Advanced Data structures and algorithms	19MCB02	Advanced Data Structures and Algorithms	0
5	16MCB02	Advanced operating systems	19MCB05	Advanced operating systems	0
6	16MCB03	Multi core architectures	-	-	
7	16MCB04	Data mining and Data Warehousing	19MCB04	Data Mining Techniques	40
8	16MCB05	Advanced Data base Technology	-	-	
9	16MCB06	Advances in Computer Networks	-	-	
10	16MCB07	Machine learning techniques	19MCB07	Machine learning techniques	50
11	-	-	19MCB08	Machine learning techniques Laboratory	100
12	16MCB08	Cloud computing technologies	19MCC03	Cloud Computing	80
13	-	-	19MCC04	Cloud Computing Laboratory	100
14	16MCB09	Advanced software Engineering	19MCB09	Advanced software Engineering	0
15	16MCB10	Multimedia Communications	19MCB03	Multimedia communications	0
16	16MCB11	Network security techniques	-	-	

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17	16MCB12	Parallel Algorithms	-	-	
18	16MCC01	Digital image processing	-	-	
19	16MCC02	Computer vision and applications	-	-	
20	16MCC03	Artificial Intelligence	-	-	
21	16MCC04	Natural language processing	-	-	
22	16MCC05	Distributed computing	-	-	
23	16MCC06	Service oriented architecture	-	-	
24	16MCC07	Mobile application development	-	-	
25	16MCC08	Internet of things	19MCC11	Internet of things	0
26	16MCC09	Big data analytics	19MCB12	Big data Analytics	40
27	16MCC10	Information Retrieval Techniques	-	-	
28	16MCC11	Ad Hoc and Wireless Sensor Networks	19MCC10	Ad Hoc and Wireless Sensor Networks	0
29	16MCC12	Pattern classification and Analysis	19MCC08	Pattern classification and Analysis	0
30	16MCD01	Project work - Phase I	-	-	
31	16MCD02	Project work - Phase II	-	-	
32	-	-	19MCB01	Soft Computing	100
33	-	-	19MCB06	Network Design and Technologies	100
34	-	-	19MCB10	Advanced Database Technology	100
35	-	-	19MCB11	Advanced Database Technology Laboratory	100
36	-	-	19MCB13	Research Methodology and IPR	100
37	-	-	19MCC01	Advanced Algorithms	100
38	-	-	19MCC02	Advanced Algorithm Laboratory	100
39	-	-	19MCC05	Web Data Mining	100
40	-	-	19MCC06	Web Analytics and Development	100

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41	-	-	19MCC07	Data Storage Technologies and Networks	100
42	-	-	19MCC09	Mobile and Pervasive Computing	100
43	-	-	19MCC12	Data Preparation and Analysis	100
44	-	-	19MCC13	Advanced Computer Architecture	100
45	-	-	19MCD01	Mini Project with Seminar	100
46	-	-	19MCD02	Dissertation I	100
47	-	-	19MCD03	Dissertation II	100
48	-	-	19MCD04	Value Education	100
49	-	-	19MCD05	Disaster Management	100
50	-	-	19MCD06	Sanskrit for Technical Knowledge	100
51	-	-	19MCD07	English for Research Paper Writing	100
52	-	-	19MCD08	Constitution of India	100
53	-	-	19MCD09	Pedagogy Studies	100
54	-	-	19MCD10	Stress Management by Yoga	100
<b>Average</b>					<b>69.49</b>

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## M.E-VLSI Design Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16VLA01	Advanced Numerical Methods	19VLA01	Advanced Numerical Methods	0
2	16VLA02	Applied Mathematics	19VLA02	Applied Mathematics	0
3	16VLA03	Applied Probability and Statistics	19VLA03	Applied Probability and Statistics	0
4	16VLB01	VLSI Signal Processing	19VLB01	VLSI Signal Processing	0
5	16VLB02	VLSI Design Techniques	19VLB02	VLSI Design Techniques	0
6	16VLB03	Analog VLSI Circuit Design	19VLB03	Analog VLSI Circuit Design	0
7	16VLB04	Solid State Device Modeling and Simulation	19VLB04	Solid State Device Modeling and Simulation	0
8	16VLB05	ASIC Design	19VLB05	ASIC Design	0
9	16VLB07	Digital CMOS VLSI Design	19VLB07	Digital CMOS VLSI Design	0
10	16VLB08	CAD for VLSI Circuits	19VLB08	CAD for VLSI Circuits	0
11	16VLB09	Low Power VLSI Design	19VLB09	Low Power VLSI Design	0
12	16VLB11	Testing of VLSI Circuits	19VLB11	Testing of VLSI Circuits	0
13	-	-	19VLB06	VLSI Design Techniques Laboratory	100
14	-	-	19VLB10	Digital CMOS VLSI Design Laboratory	100
15	16VLC01	Signal Integrity for High Speed Devices	19VLC01	Signal Integrity for High Speed Devices	0
16	16VLC02	Advanced Digital System Design	19VLC02	Advanced Digital System Design	0
17	16VLC03	Submicron VLSI Design	19VLC03	Submicron VLSI Design	0
18	16VLC04	VLSI Technology	19VLC04	VLSI Technology	0
19	16VLC05	DSP Integrated Circuits	19VLC05	DSP Integrated Circuits	0
20	16VLC06	ARM Processor and Applications	19VLC06	ARM Processor and Applications	0
21	16VLC07	Hardware Design Verification Techniques	19VLC07	Hardware Design Verification Techniques	0
22	16VLC08	Design and Analysis of Algorithms	19VLC08	Design and Analysis of Algorithms	0
23	16VLC09	MEMS and NEMS	19VLC09	MEMS and NEMS	0

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24	16VLC10	Soft Computing	19VLC10	Soft Computing	0
25	16VLC11	VLSI for Wireless Communication	19VLC11	VLSI for Wireless Communication	0
26	16VLC12	Reconfigurable Architectures	19VLC12	Reconfigurable Architectures	0
28	16VLC13	Research Methodology	19VLC13	Research Methodology	0
29	16VLC14	RF Integrated Circuit Design	19VLC14	RF Integrated Circuit Design	0
30	16VLC15	Electromagnetic Interference and Compatibility	19VLC15	Electromagnetic Interference and Compatibility	0
31	16VLD01	Project Work Phase -I	19VLD01	Project Work Phase -I	0
32	16VLD02	Project Work Phase -II	19VLD02	Project Work Phase -II	0
33	16VLE01	English for Research Paper Writing	19VLE01	English for Research Paper Writing	0
34	16VLE02	Disaster Management	19VLE02	Disaster Management	0
35	16VLE03	Sanskrit for Technical Knowledge	19VLE03	Sanskrit for Technical Knowledge	0
36	16VLE04	Value Education	19VLE04	Value Education	0
37	16VLE05	Constitution of India	19VLE05	Constitution of India	0
38	16VLE06	Pedagogy Studies	19VLE06	Pedagogy Studies	0
39	16VLE07	Stress Management by Yoga	19VLE07	Stress Management by Yoga	0
40	16VLE08	Personality Development through Life Enlightenment Skills.	19VLE08	Personality Development through Life Enlightenment Skills.	0
<b>Average</b>					<b>5.13</b>



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## M.E-Power Systems Engineering Percentage of Syllabus Revision


Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16PSA01	Advanced Numerical Methods	19PSA01	Advanced Numerical Methods	0
2	16PSA02	Applied Mathematics	19PSA02	Applied Mathematics	0
3	16PSA03	Applied Probability and Statistics	19PSA03	Applied Probability and Statistics	0
4	16PSB01	Linear and Non-Linear Systems Theory	19PSB01	Linear and Non-Linear Systems Theory	0
5	16PSB02	Electrical Transients in Power Systems	19PSB02	Electrical Transients in Power Systems	0
6	16PSB03	Advanced Power System Analysis	19PSB03	Advanced Power System Analysis	0
7	16PSB04	Advanced Power System Operation and Control	19PSB04	Advanced Power System Operation and Control	0
8	-	-	19PSB05	Advanced Power System Operation and Control Laboratory	100
9	16PSB05	Advanced Power System Dynamics	19PSB06	Advanced Power System Dynamics	0
10	16PSB06	Flexible AC Transmission Systems	19PSC01	Flexible AC Transmission Systems	0
11	16PSB07	Advanced Power System Protection	19PSB08	Advanced Power System Protection	0
12	16PSB08	Restructured Power System	19PSB09	Restructured Power System	0
13	-	-	19PSB10	Restructured Power System Laboratory	100
14	16PSB09	Distributed Generation and Micro Grid	19PSC09	Distributed Generation and Micro Grid	0
15	16PSB10	Power System Security	19PSB12	Power System Security	0
16	16PSB11	Industrial Power System Analysis and Design	19PSB13	Industrial Power System Analysis and Design	0
17	16PSB12	Power System Planning and Reliability	19PSB14	Power System Planning and Reliability	0

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18	16PSC01	Substation Equipment & Design	19PSB07	Substation Equipment & Design	0
19	16PSC02	Microcontroller Based System Design	19PSC02	Microcontroller Based System Design	0
20	16PSC03	Design and Analysis of Inverters	19PSC03	Design and Analysis of Inverters	0
21	16PSC04	Power Quality	19PSC04	Power Quality	0
22	16PSC05	Advanced Digital Signal Processing	19PSC05	Advanced Digital Signal Processing	0
23	16PSC06	Energy Management and Auditing	19PSC06	Energy Management and Auditing	0
24	16PSC07	High Voltage Direct Current Transmission	19PSC07	High Voltage Direct Current Transmission	0
25	16PSC08	Application of MEMS Technology	19PSC08	Application of MEMS Technology	0
26	16PSC09	Solar and Energy Storage Systems	19PSB11	Solar and Energy Storage Systems	0
27	16PSC10	Wind Energy Conversion Systems	19PSC10	Wind Energy Conversion Systems	0
28	16PSC11	Power Plant Instrumentation and Control	19PSC11	Power Plant Instrumentation and Control	0
29	16PSC12	Smart Grid	19PSC12	Smart Grid	0
30	16PSC13	Power Electronics for Renewable Energy Systems	19PSC13	Power Electronics for Renewable Energy Systems	0
31	16PSC14	Real time operating systems	19PSC14	Real time operating systems	0
32	16PSC15	Soft Computing Techniques	19PSC15	Soft Computing Techniques	0
33	16PSD01	Project Work-Phase I	19PSD01	Project Work-Phase I	0
34	16PSD02	Project Work-Phase II	19PSD02	Project Work-Phase II	0
<b>Average</b>					<b>5.88</b>

  
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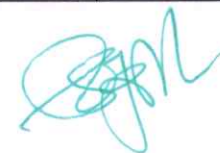
## M.E-Communication System Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16MSA01	Advanced Numerical Methods	19MSA01	Advanced Numerical Methods	0
2	16MSA02	Applied Mathematics	19MSA02	Applied Mathematics	0
3	16MSA03	Applied Probability and Statistics	19MSA03	Applied Probability and Statistics	0
4	16MSB01	Radiation Systems	19MSB01	Radiation Systems	0
5	16MSB02	Information Theory and Coding	19MSB02	Information Theory and Coding	0
6	16MSB03	Statistical Signal Processing	19MSB03	Statistical Signal Processing	0
7	16MSB04	Optical Communication Networks	19MSB04	Optical Communication Networks	10
8	16MSB05	Mobile Communication Networks	19MSB05	Mobile Communication Networks	0
9	16MSB06	Modern Digital Communication Techniques	19MSB06	Modern Digital Communication Techniques	0
10	16MSB07	RF System Design	19MSB07	RF System Design	10
11	16MSB08	Electromagnetic Interference and Compatibility	19MSB08	Electromagnetic Interference and Compatibility	0
12	16MSB09	Microwave Integrated Circuits	19MSB09	Microwave Integrated Circuits	0
13	16MSB10	Communication Network Design	19MSB10	Communication Network Design	0
14	16MSB11	Wireless Networks	19MSB11	Wireless Networks	0
15	16MSB12	DSP Processor Architecture and Programming	19MSB12	DSP Processor Architecture and Programming	0
16	-	-	19MSB13	Statistical Signal Processing Laboratory	100
17	-	-	19MSB14	RF System Design Laboratory	100
18	16MSC01	Multimedia and Compression Techniques	19MSC01	Multimedia and Compression Techniques	0
19	16MSC02	Routing Algorithms	19MSC02	Routing Algorithms	0
20	16MSC03	Adaptive Beam Forming	19MSC03	Adaptive Beam Forming	0
21	16MSC04	Biological Effects of Microwaves	19MSC04	Biological Effects of Microwaves	0
22	16MSC05	Soft Computing	19MSC05	Soft Computing	0
23	16MSC06	Wireless Security System	19MSC06	Wireless Security System	0

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24	16MSC07	RTOS and its Applications	19MSC07	RTOS and its Applications	0
25	16MSC08	Optical Signal Processing in Communication	19MSC08	Optical Signal Processing in Communication	0
26	16MSC09	High Speed Switching Architecture	19MSC09	High Speed Switching Architecture	0
27	16MSC10	Mobile Adhoc Networks	19MSC10	Mobile Adhoc Networks	0
28	16MSC11	RF MEMS	19MSC11	RF MEMS	0
29	16MSC12	Satellite Remote Sensing	19MSC12	Satellite Remote Sensing	0
30	16MSD01	Project Work Phase -I	19MSD01	Project Work Phase -I	0
31	16MSD02	Project Work Phase -II	19MSD02	Project Work Phase -II	0
32	16MSE01	English for Research Paper Writing	19MSE01	English for Research Paper Writing	0
33	16MSE02	Disaster Management	19MSE02	Disaster Management	0
34	16MSE03	Sanskrit for Technical Knowledge	19MSE03	Sanskrit for Technical Knowledge	0
35	16MSE04	Value Education	19MSE04	Value Education	0
36	16MSE05	Constitution of India	19MSE05	Constitution of India	0
37	16MSE06	Pedagogy Studies	19MSE06	Pedagogy Studies	0
38	16MSE07	Stress Management by Yoga	19MSE07	Stress Management by Yoga	0
39	16MSE08	Personality Development through Life Enlightenment Skills.	19MSE08	Personality Development through Life Enlightenment Skills.	0
<b>Average</b>					<b>5.64</b>



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Department of Electronics and Communication Engineering  
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## Department of Management Studies Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16MBA01	Essentials of Management	19MBA01	Essentials of Management	0
2	16MBA02	Business Statistics	19MBA02	Business Statistics	0
3	16MBA03	Managerial Economics	19MBA03	Managerial Economics	0
4	16MBA04	Organizational Behaviour	19MBA04	Organizational Behaviour	0
5	16MBA05	Accounting for Management	19MBA05	Accounting for Management	0
6	16MBA06	Business Law	19MBA06	Business Law	0
7	16MBA07	Business Environment	19MBA07	Business Environment	0
8	16MBA08	Indian Ethos for Management	19MBA08	Indian Ethos for Management	0
9	16MBA09	Business Communication	19MBA09	Business Communication	0
10	16SHA08	Principles of Management and Engineering Ethics	19SHA08	Principles of Management and Engineering Ethics	0
11	-	-	19MBA10	Managerial Skills For Effectiveness	100
12	16MBB01	Marketing Management	19MBB01	Marketing Management	0
13	16MBB02	Financial Management	19MBB02	Financial Management	0
14	16MBB03	Operations Management	19MBB03	Operations Management	0
15	16MBB04	Human Resource Management	19MBB04	Human Resource Management	0
16	16MBB05	Quantitative Methods and Techniques	19MBB05	Quantitative Methods and Techniques	0
17	16MBB06	Information System for Management	19MBB06	Information System for Management	0
18	16MBB07	Research Methods	19MBB07	Research Methods	0
19	16MBB08	Strategic Management	19MBB08	Strategic Management	0
20	16MBB09	International Business Management	19MBB09	International Business Management	0
21	16MBB10	Business Application Modules	19MBB10	Business Application Modules	0

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22	-	-	19MBB11	Event management ( Laboratory )	100
23	16MBC01	Advertising and Promotion Management	19MBC01	Advertising and Promotion Management	0
24	16MBC02	Brand Management	19MBC02	Brand Management	0
25	16MBC03	Consumer Behaviour	19MBC03	Consumer Behaviour	0
26	16MBC04	Retail Management	19MBC04	Retail Management	0
27	16MBC05	Rural Marketing	19MBC05	Rural Marketing	0
28	16MBC06	Services Marketing	19MBC06	Services Marketing	0
29	16MBC11	Financial Derivatives	19MBC11	Financial Derivatives	0
30	16MBC12	Merchant Banking and Financial Services	19MBC12	Merchant Banking and Financial Services	0
31	16MBC13	Security Analysis and Portfolio Management	19MBC13	Security Analysis and Portfolio Management	0
32	16MBC14	Banking and Indian Financial System	19MBC14	Banking and Indian Financial System	0
33	16MBC15	Risk Management and Insurance	19MBC15	Risk Management and Insurance	0
34	16MBC16	Corporate Finance	19MBC16	Corporate Finance	0
35	16MBC21	Training and Development	19MBC21	Training and Development	0
36	16MBC22	Industrial Relations and Labour Laws	19MBC22	Industrial Relations and Labour Laws	0
37	16MBC23	Managerial Behavior and Effectiveness	19MBC23	Managerial Behavior and Effectiveness	0
38	16MBC24	Competency Mapping and Development	19MBC24	Competency Mapping and Development	0
39	16MBC25	Performance Management	19MBC25	Performance Management	0
40	16MBC26	Cross Culture Management	19MBC26	Cross Culture Management	0
41	16MBC31	Project Management	19MBC31	Project Management	0
42	16MBC32	Lean Manufacturing	19MBC32	Lean Manufacturing	0
43	16MBC33	Service Operations Management	19MBC33	Service Operations Management	0
44	16MBC34	Supply Chain and Logistics Management	19MBC34	Supply Chain and Logistics Management	0
45	16MBC35	Total Quality Management	19MBC35	Total Quality Management	0
46	16MBC41	E-Commerce	19MBC41	E-Commerce	0
47	16MBC42	Business Intelligence	19MBC42	Business Intelligence	0
48	16MBC43	Knowledge Management	19MBC43	Knowledge Management	0
49	16MBC44	Relational Database Management System	19MBC44	Relational Database Management System	0
50	16MBC51	Disaster Management	19MBC51	Disaster Management	0
51	16MBC52	Environmental Management	19MBC52	Environmental Management	0
52	16MBC53	Business Ethics	19MBC53	Business Ethics	0
53	16MBC54	Entrepreneurship Development	19MBC54	Entrepreneurship Development	0

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54	-	-	19MBC06	Digital Marketing	100
55	16MBD01	Summer Internship	19MBD01	Summer Internship	0
56	16MBD02	Field Survey	19MBD02	Field Survey	0
57	16MBD03	Project Work	19MBD03	Project Work	0
<b>Average</b>					<b>5.26</b>

  
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 Department of MBA  
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## M.E-CAD/CAM Percentage of Syllabus Revision

Sl.NO.	Regulation-2016		Regulation-2019		Percentage of Course Content Changed
	Course Code	Course Title	Course Code	Course Title	
1	16CMA01	Advanced Numerical Methods	19CMA01	Advanced Numerical Methods	0
2	16CMA02	Applied Mathematics	19CMA02	Applied Mathematics	0
3	16CMA03	Applied Probability and Statistics	19CMA03	Applied Probability and Statistics	0
4	16CMA04	Design of Experiments and Research Methodology	19CMA04	Design of Experiments and Research Methodology	0
5	16CMB01	Computer Applications in Design	19CMB01	Computer Aided Design	0
6	16CMB02	Competitive Manufacturing Systems	19CMB02	Competitive Manufacturing Systems	0
7	16CMB03	Design for Manufacture and Assembly	19CMB03	Design for Manufacture and Assembly	0
8	16CMB04	CNC Machines and Robotics	19CMB04	CNC Machines and Robotics	0
9	16CMB05	Advanced Strength of Materials	19CMB05	Advanced Strength of Materials	0
10	16CMB06	Finite Element Analysis and Applications	19CMB06	Finite Element Analysis and Applications	0
11	16CMB07	Integrated Product and Process Development	19CMB07	Integrated Product and Process Development	0
12	16CMB08	Industrial Safety Management	19CMB08	Industrial Safety Management	0
13	16CMB09	Applied Materials Engineering	19CMB09	Applied Materials Engineering	0
14	16CMB10	Computational Fluid Dynamics	19CMB10	Computational Fluid Dynamics	0
15	16CMB11	Data communications in CAD/CAM	19CMB11	Data communications in CAD/CAM	0
16	16CMB12	Mechanisms Design and Simulation	19CMB12	Mechanisms Design and Simulation	0
17	-	-	19CMP01	Computer Aided Design Laboratory	100
18	-	-	19CMP02	CNC Machines and Robotics Laboratory	100
19	-	-	19CMP03	Finite Element Analysis and Applications Laboratory	100
20	16CMC01	Optimization Techniques in Design	19CMC01	Optimization Techniques in Design	0
21	16CMC02	Advanced Tool Design	19CMC02	Advanced Tool Design	0
22	16CMC03	Computer Control in Process Planning	19CMC03	Computer Control in Process Planning	0

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23	16CMC04	Reliability in Engineering Systems	19CMC04	Reliability in Engineering Systems	0
24	16CMC05	Tribology in Composite Materials Design	19CMC05	Tribology in Composite Materials Design	0
25	16CMC06	Design of Material Handling Equipments	19CMC06	Design of Material Handling Equipments	0
26	16CMC07	Mechatronics Applications in Manufacturing	19CMC07	Mechatronics Applications in Manufacturing	0
27	16CMC08	Modeling and Analysis of Manufacturing Systems	19CMC08	Modeling and Analysis of Manufacturing Systems	0
28	16CMC09	Productivity Management and Re-Engineering	19CMC09	Productivity Management and Re-Engineering	0
29	16CMC10	Design and Manufacturing of Composite Materials	19CMC10	Design and Manufacturing of Composite Materials	0
30	16CMC11	Integrated Mechanical Design	19CMC11	Integrated Mechanical Design	0
31	16CMC12	Additive Manufacturing	19CMC12	Additive Manufacturing	0
32	-	-	19CMC13	Geometric Modeling	100
33	16CMD01	Project Work Phase -I	19CMD01	Project Work Phase -I	0
34	16CMD02	Project work Phase -II	19CMD02	Project work Phase -II	0
35	16CMD03	Comprehension and Paper Presentation	-	-	
36	16CMD04	Simple Design & Analysis Project	-	-	
37	-	-	19CMD03	Seminar	100
38	-	-	19CMD04	Design & Analysis Project	100
<b>Average</b>					<b>16.67</b>

  
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1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years (20) &

1.2.2 Percentage of Programs in which Choice Based Credit System (CBCS)/Elective Course System has been implemented (20)

Programme Code	Programme Name	If revision has been carried out in the syllabus during last 5 years, Percentage of content added or replaced	Link to the relevant document
CE	B.E-Civil Engineering	44.09	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Civil-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Civil-Engineering.pdf</a>
CS	B.E-Computer Science and Engineering	62.42	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Computer-Science-and-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Computer-Science-and-Engineering.pdf</a>
EC	B.E-Electronics and Communication Engineering	55.37	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electronics-and-Communication-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electronics-and-Communication-Engineering.pdf</a>
EE	B.E-Electrical and Electronics Engineering	47.26	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electrical-and-Electronics-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Electrical-and-Electronics-Engineering.pdf</a>
ME	B.E-Mechanical Engineering	42.9	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Mechanical-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Mechanical-Engineering.pdf</a>
IT	B.Tech-Information Technology	58.93	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf</a>
BM	B.E-BioMedical Engineering	37.93	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-BioMedical-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-BioMedical-Engineering.pdf</a>
MD	B.E-Medical Electronics	54.07	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Medical-Electronics.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.E.-Medical-Electronics.pdf</a>
BT	B.Tech-Bio Technology	32.84	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-BioTechnology.pdf</a>
CH	B.Tech-Chemical Engineering	30.43	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-Chemical-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/B.Tech.-Chemical-Engineering.pdf</a>
AD	B.Tech.-Artificial Intelligence and Data Science	0	=
CY	B.E-Cyber Security	0	=
MZ	B.E-Mechatronics Engineering	0	=
RA	B.E-Robotics and Automation	0	=
MC	M.E-Computer Science and Engineering	69.49	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Computer-Science-and-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Computer-Science-and-Engineering.pdf</a>
CO	M.E-Communication System	5.64	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Communication-System.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Communication-System.pdf</a>
VL	M.E-VLSI Design	5.13	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-VLSI-Design.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-VLSI-Design.pdf</a>
PSE	M.E-Power Systems Engineering	5.88	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Power-Systems-Engineering.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-Power-Systems-Engineering.pdf</a>
CAD	M.E-CAD/CAM	16.67	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-CAD-CAM.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.E.-CAD-CAM.pdf</a>
MB	Master of Business Administration	5.26	<a href="https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.B.A.-Master-of-Business-Administration.pdf">https://mec.edu.in//naac/cycle2/Criterion-1/1.1/1.1.2/M.B.A.-Master-of-Business-Administration.pdf</a>
MCA	Masters of Computer Application	0	=

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