

R.8.5.1-11b



**MOHANDAS COLLEGE OF
ENGINEERING & TECHNOLOGY**

ANAD, NEDUMANGAD
THIRUVANANTHAPURAM -44
Tel: 0472-2813039

Web: www.mcetonline.com
E-mail: mail@mcetonline.com

ACADEMIC CALENDAR

For B.Tech 2nd, 4th, 6th & 8th Semesters,

MCA 2nd, 4th & 6th Semesters

&

M.Tech 4th Semester

2019 - 2020

Name :

Roll No:

Branch:

Year :

MCET.....*Mind Set For Learning*

DIRECTORY

**MCET EPABX Numbers: 0472-2813039, 0472-2802552,
0472-2814578**

**Help line numbers: 9847756665, 9847756668
(Time: 8.30 am to 4.30 pm)**

Extensions

Administrative Officer	110
Accounts Officer	106
MH	135
LH	137

Men's Hostel (MH) 0472-2814580 (D)

Ladies Hostel (LH) 0472-2814572 (D)

**MOHANDAS COLLEGE OF
ENGINEERING & TECHNOLOGY**
ANAD, NEDUMANGAD
THIRUVANANTHAPURAM-44

ACADEMIC CALENDAR 2019

For B.Tech 2nd, 4th, 6th & 8th Semesters, MCA 2nd, 4th & 6th Semesters & M.Tech 4th Semester

Time Table

Regular class work has been scheduled, Monday to Friday from 8.30 AM to 4.30 PM, 1 hour duration for each period. Regular class work will be based on the academic calendar 2019 -20.

Holidays

All Kerala government holidays approved by the Management are holidays for the college. Other holidays if any will be announced by the Management from time to time. However any working day lost on account of any Bandh, Hartal or the like will be compensated by an additional working day on a Saturday/holiday.

Rules of general discipline

Students are to strictly follow the following:

- Class timings: 8.30 AM to 4.30 PM with a lunch break from 12.45 PM to 1.30 PM for Higher Semesters of CSE, ECE, EEE & ME and the lunch break from 11.45 AM to 12:30 PM for S1/S2, Higher semester of CE, BT & BCE, MCA & M.Tech students.
- The students should be inside the classroom before 8.30 AM.
- Students will not be permitted to leave the campus between 8.30 AM and 4.30 PM without the prior permission/sanction of the Director / Principal. If the students leave the campus without proper permission, the matter will be informed to the parents. If it is repeated a fine of Rs 1000 /- will be collected on intimation to the parents.
- Unauthorised absence from the classes will be taken seriously and disciplinary action will be taken. Sanction should be obtained from the HOD in advance for any absence. If the absence is more than 3 day's medical certificate should be produced. All medical leaves have to be sanctioned by the Director / Principal. Leave letter to be submitted on the day they come back to the college. No late leave will be considered.
- Students, who have no class, are not allowed to loiter around in the campus during class hours disturbing other classes. Abstaining from class "en-masse" is considered as a serious offence for which disciplinary actions will be taken.

- Silence should be maintained in library and computer labs. Library books should be handled with care. Rules pertaining to the issue of library books should be adhered to.
- As per the High Court Order mobile phones are banned inside the college campus. Strict disciplinary action, including confiscation of the mobile phone and a fine of Rs.1000/- will be taken on students who violate the above rule.
- Ragging in any form is strictly prohibited in the college according to the directions of the AICTE and Government of India. Penal measures to those found guilty of ragging will extend up to immediate expulsion from the college.
- Students are expected to maintain a very high order of discipline. No effort shall be spared to conduct themselves at all times, at all places, and on all occasion in a manner worthy of students of a course which is to lead them to high responsibility in the future.
- Students are expected to adhere to the dress code prescribed by the institution while in campus. Boys should wear trousers with formal belts (only black / brown colours permitted) and insert shirts with half sleeves and their feet should be protected with socks and shoes. **Jeans and T-shirts are not permitted.** Girls should wear salwar kameez and dhuppatta. Girls should take care to tuck their hair. **The ID card should be displayed whenever they are inside the campus.** Strict disciplinary actions will be taken on the spot against those who violate the dress code. Any change from the dress code is permitted with the consent of the Director / Principal on special occasions.
- Every student shall provide himself/herself with the entire prescribed textbooks, drawing instruments and accessories and other such articles required for the classroom work.
- The college properties should be handled with maximum care and everything possible should be done to preserve the cleanliness, and tidiness of the building, furniture, library, buses and premises. Fine will be imposed for damages to equipment, furniture, building etc.
- The students are to attend all the activities organized by the college otherwise fine will be imposed.
- A number of additional programs in the form of a Add-on courses, remedial classes, extramural lecture, study tour, industrial visit, finishing school, soft skill training etc are arranged for the development of the students. It is mandatory to all the eligible students to attend all these programs
- From the academic year 2018-2019 the institution will be following 5 days week (Monday to Friday) timetable.

The following additional facilities are available for the students:

- 24 hours ambulance facility
- Infirmary with the service of a doctor at BT&BCE Department.
- Sick rooms are available in the EEE Department (Ladies – 1st floor & Gents – 2nd floor)
- 24 hours Internet facility both for day scholars and hostlers.

Director's / Principal's decision regarding the discipline will be final.

January 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Tue		
	2	Wed	Mannam Jayanthi	
	3	Thu		
	4	Fri		
	5	Sat		
	6	Sun		
	7	Mon		
	8	Tue		
	9	Wed		
	10	Thu		
	11	Fri		
	12	Sat		
	13	Sun		
	14	Mon		
	15	Tue		
	16	Wed		
	17	Thu		
	18	Fri		
	19	Sat		
	20	Sun		
	21	Mon		
	22	Tue		
	23	Wed		
	24	Thu		
	25	Fri		
	26	Sat	Republic Day	
	27	Sun		
	28	Mon	Commencement of Even Semester Classes(S2, S4, S6, S8 B.Tech, S2, S4, S6 MCA & S4 M.Tech)	
	29	Tue		
	30	Wed		
	31	Thu	Course Committee / Class Committee Meeting Completed	

 Holidays

February 19				
Contact Days	Date	Day		Week Assignments
	1	Fri		
	2	Sat	Working day in lieu of 8th January 2019. (Friday's - TT)	
	3	Sun		
	4	Mon		Assignment I / Tutorial I to be completed
	5	Tue		
	6	Wed		
	7	Thu		
	8	Fri		
	9	Sat		
	10	Sun		
	11	Mon	Publish Attendance of January month	
	12	Tue		
	13	Wed		
	14	Thu		
	15	Fri		
	16	Sat	working day in lieu of 9th January 2019. (Friday's - TT)	
	17	Sun		
	18	Mon		
	19	Tue		
	20	Wed	Attukal Pongala	
	21	Thu		
	22	Fri	Annual Sports Day	
	23	Sat	Sports/ Special class	
	24	Sun		
	25	Mon		Assignment II / Tutorial II to be completed
	26	Tue	KTU Exam Registration begins	
	27	Wed		
	28	Thu		

 Holidays

March 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Fri		
	2	Sat		
	3	Sun		
	4	Mon	Maha Shivratri	
	5	Tue	Series Test 1	
	6	Wed	"	
	7	Thu	"	
	8	Fri		
	9	Sat		
	10	Sun		
	11	Mon	Publish Attendance of February month	
	12	Tue		
	13	Wed	KTU Exam Registration Ends	
	14	Thu		
	15	Fri		
	16	Sat		
	17	Sun		
	18	Mon	Course Committee / Class Committee Meeting Completed	
	19	Tue		
	20	Wed		
	21	Thu		
	22	Fri		
	23	Sat		
	24	Sun		Assignment III / Tutorial III to be completed
	25	Mon		
	26	Tue		
	27	Wed		
	28	Thu		
	29	Fri		
	30	Sat		
	31	Sun		

 Holidays

April 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Mon		
	2	Tue	Wednesday - TT	
	3	Wed		
	4	Thu		
	5	Fri		
	6	Sat		
	7	Sun		
	8	Mon	Series Test 2	
	9	Tue	"	
	10	Wed	"	
	11	Thu	Publish Attendance of March month	
	12	Fri		
	13	Sat		Assignment IV / Tutorial IV to be completed
	14	Sun	Dr. Ambedkar Jayanthi	
	15	Mon	Vishu	
	16	Tue		
	17	Wed		
	18	Thu	Maundy Thursday	
	19	Fri	Good Friday	
	20	Sat		
	21	Sun	Easter	
	22	Mon		
	23	Tue		
	24	Wed		
	25	Thu	Course Committee / Class Committee Meeting Completed	
	26	Fri	Colloquium' 19	
	27	Sat	Colloquium' 19	
	28	Sun		
	29	Mon		
	30	Tue		

 Holidays

May 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Wed	May Day	
	2	Thu		
	3	Fri	College Day	
	4	Sat		
	5	Sun		
	6	Mon	Last date for evaluation of practicals (PG)	
	7	Tue	Publish IA marks for UG & PG	
	8	Wed		
	9	Thu		
	10	Fri		
	11	Sat		
	12	Sun		
	13	Mon		
	14	Tue	Classes Ends Publish Attendance	
	15	Wed	Final Years Day	
	16	Thu		
	17	Fri	Commencement of Summer Course (S1 -S4)	
	18	Sat		
	19	Sun		
	20	Mon		
	21	Tue		
	22	Wed		
	23	Thu		
	24	Fri		
	25	Sat		
	26	Sun		
	27	Mon	Exam S6 UG, S2 PG and S6 MCA begins	
	28	Tue	Exam S8 UG, S3 PG and S2 MCA begins	
	29	Wed	Submission project report in the collage (PG)	
	30	Thu		
	31	Fri		

 Holidays

June 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Sat		
	2	Sun		
	3	Mon		
	4	Tue		
	5	Wed	Idul Fitr	
	6	Thu	Summer course eligibility uploading	
	7	Fri	Prayan' 19	
	8	Sat		
	9	Sun		
	10	Mon	Project Eval & Viva-Voce Begins (UG)	
	11	Tue		
	12	Wed		
	13	Thu	Exam S1S2 UG, S1 PG and S1 MCA Begins	
	14	Fri	Exam S7 UG and S4 MCA Begins	
	15	Sat		
	16	Sun		
	17	Mon	Project Eval & Viva-Voce Ends (UG)	
	18	Tue		
	19	Wed	Viva- Voce Begins (PG)	
	20	Thu		
	21	Fri	Samagra'19	
	22	Sat		
	23	Sun		
	24	Mon		
	25	Tue		
	26	Wed		
	27	Thu	Exam S4 UG Begins	
	28	Fri	Exam S5 UG and S5 MCA Begins	
	29	Sat		
	30	Sun		

 Holidays

July 19				
Contact Days	Date	Day	Details	Week Assignments
	1	Mon		
	2	Tue		
	3	Wed		
	4	Thu	Viva -Voce Ends (PG)	
	5	Fri		
	6	Sat		
	7	Sun		
	8	Mon	Exam S3 UG and S3 MCA Begins	
	9	Tue		
	10	Wed		
	11	Thu		
	12	Fri		
	13	Sat		
	14	Sun		
	15	Mon	Commencement of Classes S3/S5/S7/UG/MCA, S3 PG	
	16	Tue		
	17	Wed		
	18	Thu		
	19	Fri		
	20	Sat		
	21	Sun		
	22	Mon		
	23	Tue		
	24	Wed		
	25	Thu		
	26	Fri		
	27	Sat		
	28	Sun		
	29	Mon		
	30	Tue		
	31	Wed	Karkadaka Vavu	

 Holidays

SCHEMES

SEMESTER II

Slot	Course No.	Subject	L-T-P	Hours	Credits
A	MA102	Differential Equations	3-1-0	4	4
B (1/2)	PH100	Engineering Physics	3-1-0	4	4
	CY100	Engineering Chemistry	3-1-0	4	4
C (1/2)	BE100	Engineering Mechanics	3-1-0	4	4
	BE110	Engineering Graphics	1-1-2	4	3
D	BE102	Design & Engineering	2-0-2	4	3
E, F (2/4)	CE 100	Basics of Civil Engineering	2-1-0	3	3
	ME 100	Basics of Mechanical Engineering	2-1-0	3	3
	EE 100	Basics of Electrical Engineering	2-1-0	3	3
	EC 100	Basics of Electronics Engineering	2-1-0	3	3
	CS 100	Computer Programming (Only for CSE & IT Branches)	2-1-0	3	3
S (1/2)	PH110	Engineering Physics Lab	0-0-2	2	1
	CY110	Engineering Chemistry Lab	0-0-2	2	1
T (2/4)	CE110/ME110/ EE110/EC110 CS 120	Basic Engineering Workshops	0-0-2 +	2	1
		Computer Programming Lab (Only for CSE & IT Branches)	0-0-2	2	1
U		U100 Language lab/ CAD Practice / Bridge courses/ /Micro Projects etc	0-0-(1/2)	(1/2)	
				30	24/23
V		V100 Entrepreneurship/TBI/NCC/NSS/ Physical Edn. etc	0-0-2	2	Activity points

CIVIL ENGINEERING

SEMESTER - 4

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
CE202	Structural Analysis I	3-1-0	4	B
CE204	Construction Technology	4-0-0	4	C
CE206	Fluid Mechanics II	3-0-0	3	D
CE208	Geotechnical Engineering I	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
CE232	Materials Testing Lab I	0-0-3	1	S
CE234	Fluid Mechanics Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94

SEMESTER - 6

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
CE302	Design of Hydraulic Structures	4-0-0	4	A
CE304	Design of Concrete Structures II	3-0-0	3	B
CE306	Computer Programming and Computational Techniques	3-0-0	3	C
CE308	Transportation Engineering- I	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
CE332	Transportation Engineering Lab	0-0-3	1	S
CE334	Computer Aided Civil Engineering Lab	0-0-3	1	T
CE352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours:27

Cumulative Credits= 140

Elective 2:-

1. CE362 Ground Improvement Techniques
2. CE364 Advanced Foundation Engineering
3. CE366 Traffic Engineering and Management
4. CE368 Prestressed Concrete
5. CE372 Engineering Hydrology
6. CE374 Air Quality Management

SEMESTER – 8

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
CE402	Environmental Engineering II	3-0-0	3	A
CE404	Civil Engineering Project	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
CE492	Project		6	S

Total Credits = 18**Hours:30****Cumulative Credits= 180****Elective 4:-**

1	CE462	Town and Country Planning
2	CE464	Reinforced Soil Structures and Geosynthetics
3	CE466	Finite Element Methods
4	CE468	Structural Dynamics and Earthquake Resistant Design
5	CE472	Transportation Planning
6	CE474	Municipal Solid Waste Management

COMPUTER SCIENCE AND ENGINEERING

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
CS202	Computer Organization and Architecture	3-1-0	4	B
CS204	Operating Systems	3-1-0	4	C
CS206	Object Oriented Design and Programming	2-1-0	3	D
CS208	Principles of Database Design	2-1-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
CS232	Free and Open Source Software Lab	0-0-3	1	S
CS234	Digital Systems Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
CS302	Design and Analysis of Algorithms	3-1-0	4	A
CS304	Compiler Design	3-0-0	3	B
CS306	Computer Networks	3-0-0	3	C
CS308	Software Engineering and Project Management	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
CS332	Microprocessor Lab	0-0-3	1	S
CS334	Network Programming Lab	0-0-3	1	T
CS352	Comprehensive Exam	0-1-1	2	U
Total Credits = 23		Hours: 27	Cumulative Credits= 140	

Elective 2:-

1. CS362 Computer Vision
2. CS364 Mobile Computing
3. CS366 Natural Language Processing
4. CS368 Web Technologies
5. CS372 High Performance Computing

SEMESTER – 8

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
CS402	Data Mining and Ware Housing	3-0-0	3	A
CS404	Embedded Systems	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
CS492	Project		6	S
Total Credits = 18		Hours: 30	Cumulative Credits= 180	

Elective IV

CS462	Fuzzy Set Theory and Applications
CS464	Artificial Intelligence
CS466	Data Science
CS468	Cloud Computing
CS472	Principles of Information Security

ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
EE202	Synchronous and Induction Machines	3-1-0	4	B
EE204	Digital Electronics and Logic Design	2-1-0	3	C
EE206	Material Science	3-0-0	3	D
EE208	Measurements and Instrumentation	3-1-0	4	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
EE232	Electrical Machines Lab I	0-0-3	1	S
EE234	Circuits and Measurements Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE302	Electromagnetics	2-1-0	3	A
EE304	Advanced Control Theory	3-1-0	4	B
EE306	Power System Analysis	3-0-0	3	C
EE308	Electric Drives	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
EE332	Systems and Control Lab	0-0-3	1	S
EE334	Power Electronics and Drives Lab	0-0-3	1	T
EE352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours: 27

Cumulative Credits= 140

Elective 2:-

1. EE362 Data Structures and Algorithms
2. EE364 Switched Mode Power Converters
3. EE366 Illumination Technology
4. EE368 Soft Computing
5. EE372 Biomedical Instrumentation

SEMESTER – 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE402	Special Electric Machines	3-0-0	3	A
EE404	Industrial Instrumentation & Automation	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
EE492	Project		6	S

Total Credits = 18**Hours: 29****Cumulative Credits= 180**

ELECTIVE IV	
EE462	Design of Digital Control Systems
EE464	FACTS
EE466	Digital Image Processing
EE468	Computer Networks
EE472	Internet of Things
EE474	Energy Management and Auditing

ELECTRONICS AND COMMUNICATION ENGINEERING

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA204	Probability, Random Processes and Numerical Methods	3-1-0	4	A
EC202	Signals & Systems	3-1-0	4	B
EC204	Analog Integrated Circuits	4-0-0	4	C
EC206	Computer Organization	3-0-0	3	D
EC208	Analog Communication Engineering	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
EC232	Analog Integrated Circuits Lab	0-0-3	1	S
EC230	Logic Circuit Design Lab	0-0-3	1	T

Total Credits = 23 Hours 27/28
Cumulative Credits= 94

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC302	Digital Communication	4-0-0	4	A
EC304	VLSI	3-0-0	3	B
EC306	Antenna & Wave Propagation	3-0-0	3	C
EC308	Embedded System	3-0-0	3	D
EC312	Object Oriented Programming	3-0-0	3	E
	Elective 2	3-0-0	3	F
EC332	Communication Engg Lab (Analog & Digital)	0-0-3	1	S
EC334	Microcontroller Lab	0-0-3	1	T
EC352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23 Hours: 27
Cumulative Credits = 140

Elective 2:-

1. EC362 Modelling & Simulation of Communication Systems
2. EC366 Real Time Operating Systems
3. EC368 Robotics
4. EC370 Digital Image Processing

SEMESTER – 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC402	Nano Electronics	3-0-0	3	A
EC404	Advanced Communication Systems	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
EC492	Project		6	S

Total Credits = 18**Hours: 29****Cumulative Credits= 180**

ELECTIVE IV	
EC462	Mixed Signal Circuit Design
EC464	Low Power VLSI Design
EC466	Cyber Security
EC468	Secure Communication
EC472	Integrated Optics & Photonic Systems
EC474	Computer Vision

MECHANICAL ENGINEERING

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
ME202	Advanced Mechanics of Solids	3-1-0	4	B
ME204	Thermal Engineering	3-1-0	4	C
ME206	Fluid Machinery	2-1-0	3	D
ME220	Manufacturing Technology	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
ME232	Thermal Engineering Lab	0-0-3	1	S
ME230	Fluid Mechanics & Machines Lab	0-0-3	1	T

Total Credits = 23 Hours 28/27
Cumulative Credits= 94

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME302	Heat & Mass Transfer	3-1-0	4	A
ME304	Dynamics of Machinery	2-1-0	3	B
ME306	Advanced Manufacturing Technology	3-0-0	3	C
ME308	Computer Aided Design and Analysis	3-0-0	3	D
ME312	Metrology and Instrumentation	3-0-0	3	E
	Elective 2	3-0-0	3	F
ME332	Computer Aided Design and Analysis Lab	0-0-3	1	S
ME334	Manufacturing Technology Lab II	0-0-3	1	T
ME352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hour:27
Cumulative
Credits= 140

Elective 2:-

1. ME362 Control System Engineering
2. ME364 Turbo Machinery
3. ME366 Advanced Metal Joining Technology
4. ME368 Marketing Management
5. ME372 Operations Research
6. ME374 Theory of Vibration
7. ME376 Maintenance Engineering

SEMESTER – 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME402	Design of Machine Elements II	3-0-0	3	A
ME404	Industrial Engineering	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (non Departmental)	3-0-0	3	D
ME492	Project		6	S

Total Credits = 18**Hour:30
Cumulative
Credits= 180****Elective IV**

ME462	Propulsion Engineering
ME464	Robotics and Automation
ME466	Computational Fluid Dynamics
ME468	Nanotechnology
ME472	Failure Analysis and Design
ME474	Micro and Nano Manufacturing
ME476	Material Handling & Facilities Planning

BIOTECHNOLOGY AND BIOCHEMICAL ENGINEERING

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA206	Probability & Statistics and Numerical Methods	3-1-0	4	A
BT202	Bioprocess Heat Transfer	3-1-0	4	B
BT204	Industrial Bioprocessing	4-0-0	4	C
BT206	C++ Programming	3-0-0	3	D
BT208	Principles of Biochemistry	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
BT232	Biochemistry Lab	0-0-3	1	S
BT234	Instrumental Methods of Analysis Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
BT302	Transport Phenomena in Biological Systems	4-0-0	4	A
BT304	Downstream Processing	3-0-0	3	B
BT306	Bioprocess Engineering	3-0-0	3	C
BT308	Bioreactor Analysis and Design	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
BT332	Heat and Mass Transfer Lab	0-0-3	1	S
BT334	Downstream Processing Lab	0-0-3	1	T
BT352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours: 27

Cumulative Credits= 140

Elective 2:-

1. BT362 Sustainable Energy Processes
2. BT364 Bio refinery Engineering
3. BT366 Bioremediation Technology
4. BT368 Genetic Engineering

SEMESTER - 8

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
BT402	Bioprocess Plant Design and Safety	3-0-0	3	A
BT404	Bioprocess Quality Control	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
BT492	Project		6	S

Total Credits = 18**Hours: 30****Cumulative Credits= 180****Elective 4:-**

BT462	Biomaterials Engineering
BT464	Food Process Technology
BT466	Nano biotechnology
BT468	Entrepreneurship, IPR and Biosafety

Master of Computer Applications

SCHEME

Semester – II

Course No.	Master of Computer Applications (Regular)	Hours/Weeks			IA Marks	ESE Marks	Total Marks	Credits	Exam
		L	T	P					
	Course (Semester I1)								
RLMCA102	Object Oriented Programming	3	1	-	40	60	100	4	A
RLMCA104	Data Structures	3	1	-	40	60	100	4	B
RLMCA106	Operating Systems	3	1	-	40	60	100	4	C
RLMCA108	Operations Research	3	1	-	40	60	100	4	D
RLMCA112	Computer Organization and Architecture	3	1	-	40	60	100	4	E
RLMCA132	Object Oriented Programming Lab	-		4	100		100	1	S
RLMCA134	Data Structures Lab	-		4	100		100	1	T
		15	5	8	400	300	700	22	

Semester – IV

Course No.	Master of Computer Applications (Regular)	Hours/Weeks			IA Marks	ESE Marks	Total Marks	Credits	Exam
		L	T	P					
	Course (Semester IV)								
RLMCA202	Application Development and Maintenance	3	1	-	40	60	100	4	A
RLMCA204	Big Data Technologies	3	1	-	40	60	100	4	B
RLMCA206	Mobile Computing	3	1	-	40	60	100	4	C
RLMCA208	Introduction to Machine Learning	3	1	-	40	60	100	4	D
RLMCA2 --	Elective I	3	1	-	40	60	100	4	E
RLMCA232	System Design Lab	-		4	100		100	1	S
RLMCA234	Mobile Application Development Lab	-		4	100		100	1	T
		15	5	8	400	300	700	22	

ELECTIVE-I	
RLMCA262	Functional Programming
RLMCA264	Design and Analysis of Parallel Algorithms
RLMCA266	Advanced Database Systems
RLMCA268	Computational Science
RLMCA272	Advanced Java Programming
RLMCA274	Business Intelligence and its Applications

Semester –VI

Course No.	Master of Computer Applications (Regular)	Hours/ Weeks			Sessional Marks	ESE Marks	Total Marks	Credits	Exam
		L	T	P					
	Course								
RLMCA352	Project and Viva Voce			30	70	30	100	12	
Cumulative Total							3600	123	

M.TECH SCHEME

APPLIED ELECTRONICS AND INSTRUMENTATION

SEMESTER 4

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
W	01EC7194	Project (Phase 2)	0-0-23	70	30		12
		TOTAL	0-0-23	70	30	-	12

TOTAL CONTACT HOURS : 23

TOTAL CREDITS : 12

COMPUTER SCIENCE & ENGINEERING

SEMESTER 4

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
W	01CS7194	Project (Phase 2)	0-0-23	70	30		12
		TOTAL	0-0-23	70	30	-	12

TOTAL CONTACT HOURS : 23

TOTAL CREDITS : 12

POWER SYSTEMS

SEMESTER 4

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
W	01EE7494	Project (Phase 2)	0-0-23	70	30		12
		TOTAL	0-0-23	70	30	-	12

TOTAL CONTACT HOURS : 23

TOTAL CREDITS : 12

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TIME TABLE

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Wednesday							
Thursday							
Friday							