



Jyothi Engineering College

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 CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE AICTE AND HIGH USE OF FACILITIES
 JYOTHI WILL VERIFY THE CREDIT RATIO THROUGH THE FOLLOWING: (3000) 2000 (3000) 2000 (3000) 2000 (3000) 2000
 NBA Accredited 8 Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering,
 Electrical & Electronics Engineering and Mechanical Engineering valid for Academic Years 2014-2017 to 2018-2019
 www.jyothi.ac.in | E-mail: info@jyothi.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

EC 407-COMPUTER COMMUNICATION

List of slow learners Attendance List

Sl.No	Reg.No	Name of the Student	13/11/19	15/11/19	16/11/19	18/11/19	22/11/19	25/11/19	26/11/19	27/11/19
1	JEC16EC002	ADRIAN GEORGE	A	✓	✓	✓	A	✓	✓	✓
2	JEC16EC005	AJAY.T.S	A	A	A	✓	✓	✓	✓	✓
3	JEC16EC006	AJITH ANTONY	A	✓	✓	✓	✓	✓	✓	✓
4	JEC16EC010	AMARNATH K R	A	✓	✓	✓	✓	✓	✓	✓
5	JEC16EC026	BHUVANESH.S.S	A	✓	✓	✓	✓	✓	✓	✓
6	JEC16EC030	CHITHRA.A.B	A	✓	✓	✓	✓	✓	✓	✓
7	JEC16EC031	DEEPAK KRISHNAN P	✓	✓	✓	✓	✓	✓	✓	✓
8	JEC16EC035	DIVINE MATHEW	A	✓	✓	✓	✓	✓	✓	✓
9	JEC16EC038	FEBIN RINSON KANNUKADAN	A	✓	✓	✓	A	✓	✓	✓
10	JEC16EC046	JOSEPH P B	A	✓	✓	✓	A	✓	✓	✓
11	JEC16EC081	SANDHRA .S	✓	✓	✓	✓	✓	✓	✓	✓
12	JEC16EC085	SHAHAN FATHIMA K	✓	✓	A	✓	✓	✓	✓	✓
13	JEC16EC088	SHARAN SHASHINDRAN A	✓	✓	✓	✓	✓	✓	✓	✓
14	JEC16EC093	SREERAG T K	✓	✓	A	A	A	✓	✓	✓
15	JEC16EC101	VISHNU V	✓	✓	✓	✓	✓	✓	✓	✓

Signature of Faculty

True Copy Attached

 Dr. SUNNY JOSEPH KALAYAMANKAL
 M.Tech, MCA, M.Sc, M.Phil, Ph.D.
 Ph.D. (Computer Science) (Ph.D. Awards)
 PRINCIPAL
 Jyothi Engineering College
 Jyothi, Palakkad - 675 351



Jyothi Engineering College

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NAAC accredited college with NBA Accredited Programs
SCIENCE EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATEGORIES
JYOTHI HILLS, VETTIKATHI P.O., CHERUTHURUTHY, THIRISSUR PIN-679531. PH : +91 4854 259000 274493 FAX : 04884 274772
NBA Accredited S. Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering,
Electrical & Electronic Engineering and Mechanical Engineering valid for the academic years 2016 to 2022
www.jecc.ac.in | Email : info@jecc.ac.in

PREFACE OF THE SUBJECT

Name of the Faculty : M. PONMANI RAJA

Designation : Assistant Professor

Name of the Subject : COMPUTER COMMUNICTAION

Subject Code : EC407

Year : 2016-2020

Semester : S7

Academic Year : 2019-2020

Regulation : KTU

Sunny

Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL

Jyothi Engineering College
Cheruthuruthy P.O. - 679 531

Proposed by:

M. PONMANI RAJA

Assistant Professor

Electronics and Communication Engineering

Approved by:

Dr. JOSE P. THERATTIL

Head of the Department

Electronics and Communication Engineering





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COURSE INFORMATION SHEET

PROGRAMME: Electronics and Communication Engineering(A) & (B)	DEGREE: B.TECH
COURSE: COMPUTER COMMUNICATION	SEMESTER: S7 CREDITS: 6
COURSE CODE: EC407 REGULATION: KTU	COURSE TYPE: Theory
COURSE AREA/DOMAIN: COMPUTER NETWORKS	CONTACT HOURS: 4
CORRESPONDING LAB COURSE CODE (IF ANY): -	LAB COURSE NAME: -



(Signature)
 DR. SUNNY JOSEPH KALAYATHANKAL
 M.Tech, MCA, M.Sc, M.Phil, B.Ed
 Ph.D (Computer Science), Ph.D (Maths)
 PRINCIPAL
 Jyothi Engineering College
 Cheruthuruthy P.O. - 679 531

SYLLABUS:

UNIT	DETAILS	HOURS
1	Introduction to computer communication: Transmission modes - serial and parallel transmission, asynchronous, synchronous, simplex, half duplex, full duplex communication. Switching: circuit switching and packet switching .Networks: Network criteria, physical structures, network models, categories of networks, Interconnection of Networks: Internetwork. Network models: Layered tasks, OSI model, Layers in OSI model, TCP/IP protocol suite.	6
2	Physical Layer: Guided and unguided transmission media (Co-axial cable, UTP,STP, Fiber optic cable) .Data Link Layer: Framing, Flow control (stop and wait , sliding window flow control) . Error control, Error detection(check sum, CRC), Bit stuffing, HDLC.Media access control: Ethernet (802.3), CSMA/CD, Logical link control, Wireless LAN (802.11), CSMA/CA	8
3	Network Layer Logical addressing : IPv4 & IPV6. Address Resolution protocols (ARP, RARP). Subnetting, Classless Routing(CIDR), ICMP, IGMP, DHCP.Virtual LAN, Networking devices (Hubs, Bridges & Switches).	8
4	Routing: Routing and Forwarding, Static routing and Dynamic routing .Routing Algorithms: Distance vector routing algorithm, Link state routing (Dijkstra's algorithm) . Routing Protocols: Routing Information protocol (RIP), Open Shortest Path First (OSPF), Border Gateway Protocol (BGP), MPLS	6



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<input checked="" type="checkbox"/> LCD/SMART BOARDS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> WEBINIARS
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ASSESSMENT METHODOLOGIES-DIRECT:

<input checked="" type="checkbox"/> ASSIGNMENTS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input checked="" type="checkbox"/> TESTS/MODEL EXAMS	<input checked="" type="checkbox"/> UNIV. EXAMINATION
<input type="checkbox"/> STUD. LAB PRACTICES	<input type="checkbox"/> STUD. VIVA	<input type="checkbox"/> MINI/MAJOR PROJECTS	<input type="checkbox"/> CERTIFICATIONS
<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> Others		

ASSESSMENT METHODOLOGIES-INDIRECT:

<input checked="" type="checkbox"/> ASSESSMENT OF COURSE OUTCOMES (BY FEEDBACK, ONCE)	<input checked="" type="checkbox"/> STUDENT FEEDBACK ON FACULTY (TWICE)
<input type="checkbox"/> ASSESSMENT OF MINI/MAJOR PROJECTS BY EXT. EXPERTS	<input type="checkbox"/> Others

INNOVATIONS IN TEACHING/LEARNING/EVALUATION PROCESSES:

Sl.No	DESCRIPTION
1	Audio & Video Tools
2	Content delivery through website
3	E-learning

Proposed by:

M. PONMANI RAJA

Assistant Professor

Electronics and Communication Engineering



emma

Dr. SUNNY JOSEPH KALAYATHANKAL
 M.Tech, MCA, M.Sc, M.Phil, B.Ed
 Ph.D (Computer Science), Ph.D (Maths)
 PRINCIPAL
 Jyothi Engineering College
 Cheruthuruthy P.O.-679 531

Approved by:

Dr. JOSE P. THERATTIL

Head of the Department

Electronics and Communication Engineering



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 Jyothi Hills, Vellanchalari P.O., Cheruthuruthy (K. J. Somaiya Institute of Engineering & Technology), Thrissur, Kerala, India. Phone: +91 486 259020, 274032, Fax: 0486 274032
 Website: www.jyothicollege.ac.in Email: info@jyothicollege.ac.in

DEPARTMENT OF COMPUTER SCIENCE and ENGINEERING

CS309-GRAPH THEORY AND COMBINATORICS

List of slow learners

Attendance List

Sl.No	Reg.No	Name of the Student	3/10/19	10/10/19	17/10/19	24/10/19	7/11/19	14/11/19	21/11/19	28/11/19
1	JEC17CS004	ABHIRAM BHASKAR	✓	✓	✓	✓	A	✓	✓	A
2	JEC17CS005	ABIN M K	✓	✓	✓	✓	✓	✓	✓	✓
3	JEC17CS006	ADITHYAN K	✓	A	A	✓	✓	✓	✓	✓
4	JEC17CS008	AISWARYA SAJEEV	✓	✓	✓	✓	✓	✓	✓	✓
5	JEC17CS004	ABHIRAM BHASKAR	✓	✓	✓	✓	✓	✓	✓	✓
6	JEC17CS005	ABIN M K	✓	✓	✓	✓	✓	✓	✓	✓
7	JEC17CS012	AKASH KUMAR	✓	✓	✓	A	A	✓	✓	A
8	JEC17CS013	AKHIL MR	A	✓	✓	✓	✓	✓	✓	✓
9	JEC17CS025	ANJU VINCENT V	A	✓	✓	✓	✓	✓	✓	✓
10	JEC17CS046	GLADEES C B	A	✓	✓	✓	✓	✓	✓	✓
11	JEC17CS047	GODSTIN PAUL	✓	✓	✓	✓	✓	✓	✓	✓
12	JEC17CS052	JACKSON JAMES	✓	✓	✓	✓	✓	✓	✓	✓
13	JEC16CS102	SANALNADH M	✓	✓	✓	✓	✓	✓	✓	✓
14	JEC17CS060	JOSIN GEORGE	✓	✓	✓	✓	✓	✓	✓	✓

True Copy Attested

(Signature)
 Dr. SUNNY JOSEPH KALAYATHANKAL
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 Ph.D (Computer Science), Ph.D (Maths)
 PRINCIPAL
 Jyothi Engineering College
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15	JEC17CS067	MELVIN THOMAS	✓	A	A	A	✓	✓	✓	✓
16	JEC17CS070	MUHAMMED AFTHAB V U	✓	✓	✓	✓	✓	✓	✓	✓
17	JEC17CS089	SAN JOSE	✓	✓	✓	✓	✓	✓	✓	✓

Signature of Faculty

HOD, CSE



True Copy Attested

Sunny
Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy, P.O. 679511



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PREFACE OF THE SUBJECT

Name of the Faculty : SOBHA XAVIER P

Designation : Assistant Professor

Name of the Subject : GRAPH THEORY AND COMBINATORICS

Subject Code : CS309

Year : 2016

Semester : S5

Academic Year : 2018-2019

Regulation : KTU 2015

Sunny Joseph Kalayathankal



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 Cheruthuruthy P.O. - 679 531

Proposed by:

Sobha Xavier P

SOBHA XAVIER P
 Assistant Professor
 Computer Science and Engineering

Prof. Fr. Dr. A.K. George

Prof. Fr. Dr. A.K. George
 Head of the Department
 Computer Science and Engineering



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Established in 1983, Jyothi Engineering College is a premier institution for higher education in the field of Engineering and Technology. The college has a long and illustrious history of providing quality education to its students.

COURSE INFORMATION SHEET

PROGRAMME: Computer Science and Engineering(A)	DEGREE: B.TECH
COURSE: GRAPH THEORY AND COMBINATORICS	SEMESTER: S5 CREDITS: 4
COURSE CODE: CS309 REGULATION: KTU 2015	COURSE TYPE: Theory
COURSE AREA/DOMAIN: GraphTheory	CONTACT HOURS: 4
CORRESPONDING LAB COURSE CODE (IF ANY): -	LAB COURSE NAME: -

amrj

SYLLABUS:

UNIT	DETAILS	HOURS
1	Introductory concepts- What is graph. Application of graphs. Finite and infinite graphs. Incidence and Degree. Isolated vertex, pendent vertex and Null graph. Paths and circuits. Isomorphism, sub graphs, Walks, paths and circuits. Connected graphs, disconnect graphs.	9
2	Euler graphs. Hamiltonian paths and circuits, Dirac's theorem for Hamiltonicity. Travelling salesman problem. Directed graphs. Types of digraphs. Digraphs and binary relation	10
3	Trees properties. Pendent vertex. Distance and centers. Rooted and binary tree. Counting trees. Spanning trees.	7
4	Vertex Connectivity, Edge Connectivity, Cut set and Cut Vertices. Fundamental circuits. Planar graphs. Different representation of planar graphs. Euler's theorem. Geometric dual, Combinatorial dual.	9
5	Matrix representation of graphs- Adjacency matrix, Incidence Matrix, Circuit matrix, Fundamental Circuit matrix and Rank, Cut set matrix, Path matrix.	8
6	Graphs theoretic algorithms. Algorithm for computer representation of a graph. Algorithm for connectedness and components, Spanning tree, Shortest path.	

TEXT / REFERENCE BOOKS:

T/R	BOOK TITLE/AUTHORS/PUBLICATION
	Dr. SUNNY JOSEPH KALAYATHANKAL. M.Tech, MCA, M.Sc, M.Phil, B.Ed Ph.D (Computer Science), Ph.D (Maths)





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 Jyothi Engineering College, Thiruvananthapuram
 10A Accredited degree programmes in Computer Science & Engineering (CSE), Electrical & Electronics Engineering and Mechanical Engineering.

1	NarasinghDeo, Graph theory, PHI.
1	R. Diestel, Graph Theory, free online edition: diestel-graph-theory.com/basic.html.
2	Douglas B. West, Introduction to Graph Theory, Prentice Hall India Ltd
3	Robin J. Wilson, Introduction to Graph Theory, Longman Group Ltd

COURSE PRE-REQUISITES:

C.CODE	COURSE NAME	DESCRIPTION	SEM
CS 205		DATA STRUCTURES	3

COURSE OBJECTIVES:

Sl.No	DESCRIPTION
1	To introduce the fundamental concepts in graph theory, including properties and characterization of graphs/trees
2	To familiarize Graphs theoretic algorithms

COURSE OUTCOMES:

Sl.No	DESCRIPTION	PO & PSO MAPPING
C305.1	Student is able to demonstrate the knowledge of fundamental concepts in graph theory, including properties and characterization of graphs.	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4
C305.2	Student is able to use graphs for solving real life problems.	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4
C305.3	Student is able to understand the properties and characterization of trees .	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4
C305.4	Student is able to distinguish between planar and non-planar graphs and solve problems.	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4
C305.5	Student is able to understand different matrix representation of graphs	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4
C305.6	Student is able to develop efficient algorithms for graph related problems in	PO1,PO2,PO3,PO4,PO5,PO12,PSO1,PSO2,PSO3,PSO4

amng
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 M.Tech, MCA, M.Sc, M.Phil, B.Ed
 Ph.D (Computer Science), Ph.D (Maths)
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4 <http://www.es.elte.hu/~karolyi/GT/index.html>

DELIVERY / INSTRUCTIONAL METHODOLOGIES:

<input checked="" type="checkbox"/> CHALK & TALK	<input checked="" type="checkbox"/> STUD. ASSIGNMENT	<input checked="" type="checkbox"/> WEB RESOURCES	<input type="checkbox"/> NPTEL-OTHERS
<input checked="" type="checkbox"/> LCD/SMART BOARDS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> WEBINIARS

ASSESSMENT METHODOLOGIES-DIRECT:

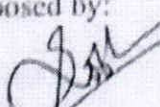
<input checked="" type="checkbox"/> ASSIGNMENTS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input checked="" type="checkbox"/> TESTS/MODEL EXAMS	<input checked="" type="checkbox"/> UNIV EXAMINATION,
<input checked="" type="checkbox"/> STUD. LAB PRACTICES	<input type="checkbox"/> STUD. VIVA	<input type="checkbox"/> MINI/MAJOR PROJECTS	<input type="checkbox"/> CERTIFICATIONS
<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> Others		

ASSESSMENT METHODOLOGIES-INDIRECT:

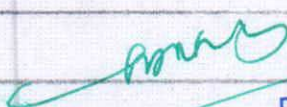

<input type="checkbox"/> ASSESSMENT OF COURSE OUTCOMES (BY FEEDBACK, ONCE)	<input checked="" type="checkbox"/> STUDENT FEEDBACK ON FACULTY (TWICE)
<input type="checkbox"/> ASSESSMENT OF MINI/MAJOR PROJECTS BY EXT. EXPERTS	<input type="checkbox"/> Others

INNOVATIONS IN TEACHING/LEARNING/EVALUATION PROCESSES:

Sl.No	DESCRIPTION
1	Peer Coaching, Quiz

Proposed by:

SOBHA XAVIER P
 Assistant Professor
 Computer Science and Engineering




Dr. SUNNY JOSEPH KALAYATHANKAL
 M.Tech, MCA, M.Sc, M.Phil, B.Ed
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Prof. Fr. Dr. A.K. George
 Head of the Department
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DEPARTMENT OF CIVIL ENGINEERING

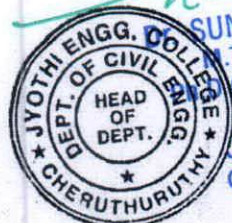
CE 208-GEOTECHNICAL ENGINEERING - I

List of slow learners

Attendance List

Sl. No.	Reg. No	Name of the Student	31/01/20	04/02/20	05/02/20	06/02/20	10/02/20	11/02/20	18/02/20	20/02/20
1	JEC18CE001	AADHIL MOHAMMED C P	✓	✓	✓	✓	✓	✓	✓	✓
2	JEC18CE003	AKHIL A R	✓	✓	✓	✓	✓	✓	✓	✓
3	JEC18CE005	ANAGHA M CHANDRAN	✓	✓	✓	✓	✓	✓	A	✓
4	JEC18CE006	ANCY ELSA ABRAHAM	✓	✓	✓	✓	✓	✓	✓	✓
5	JEC18CE012	ARJUN T	✓	✓	✓	✓	✓	✓	✓	✓
6	JEC18CE013	ARNOLD P J	✓	✓	✓	✓	A	✓	✓	✓
7	JEC18CE020	CYRIL XAVIER A	✓	✓	✓	✓	✓	✓	✓	✓
8	JEC18CE021	DELIN K R	✓	A	✓	✓	✓	✓	✓	✓
9	JEC18CE026	HARSHED SAHEER	✓	✓	✓	✓	✓	✓	✓	✓
10	JEC18CE027	JINTO VARGHESE T	✓	✓	✓	✓	✓	✓	✓	✓
11	JEC18CE030	NOEL FRANCIS	✓	✓	✓	✓	✓	A	✓	✓
12	JEC18CE033	REINA ANN JOY	✓	✓	✓	✓	✓	✓	✓	✓
13	JEC18CE034	ROHITH KRISHNAN B	✓	✓	A	✓	✓	✓	✓	✓
14	JEC18CE039	SHABEER MS	✓	✓	✓	✓	✓	✓	✓	✓
15	JEC18CE046	SONU FASAL	✓	✓	✓	✓	✓	✓	✓	A


Signature of Faculty



SUNNY JOSEPH KALAYATHANKAL
Tech, MCA, M.S., J. Phil, B.Ed
Computer Science, Ph.D (Maths)
HOD, CIVIL
PRINCIPAL
Jyothi Engineering College
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NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

PREFACE OF THE SUBJECT

Name of the Faculty : Dr. AGNES ANTO C

Designation : Associate Professor

Name of the Subject : Geotechnical Engineering I

Subject Code : CE208

Year : 2020

Semester : S4

Academic Year : 2019-2020

Regulation : KTU

Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O.- 679 531

Proposed by:

Dr. AGNES ANTO C
Associate Professor
Civil Engineering

Approved by:

Prof. S. Rathish
Head of the Department
Civil Engineering





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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS VETTIKATTUR P.O. CHERUTHURUTHY TRISSUR PIN-679531 PH. +91 4884 259000, 274423 FAX 04884 274777



NBA accredited 8 Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited 8 Tech Programme in Civil Engineering valid for the academic years 2019-2022

COURSE INFORMATION SHEET

PROGRAMME: Civil Engineering	DEGREE: B.TECH
COURSE: Geotechnical Engineering I	SEMESTER: S4 CREDITS: 3
COURSE CODE: CE208 REGULATION: KTU	COURSE TYPE: Theory
COURSE AREA/DOMAIN: GEOTECHNICAL ENGINEERING	CONTACT HOURS: 42
CORRESPONDING LAB COURSE CODE (IF ANY): -	LAB COURSE NAME: -

SYLLABUS:

UNIT	DETAILS	HOURS
1	Introduction to soil mechanics -Major soil deposits of India, Basic soil properties - Void ratio, porosity, degree of saturation, air content, percentage air voids, moisture content, specific gravity, unit weight - Relationship between basic soil properties Sensitivity Thixotropy - numerical problems	6
2	Index properties - Sieve analysis Well graded, poorly graded and gap graded soils - Stoke's law - Hydrometer analysis (no derivation required for percentage finer and diameter) - numerical problems- Relative density Consistency-Atterberg Limits - Practical Applications - numerical problems I.S. classification of soils.	6
3	Permeability of soils - Darcy's law Factors affecting permeability - Practical Applications - Constant head and falling head permeability tests - Average permeability of stratified deposits (no derivation required) - numerical problems. Principle of effective stress - Total, neutral and effective stress variation diagrams - Quick sand condition - Critical hydraulic gradient - - numerical problems Definition of phreatic line and exit gradient	7
	Shear strength of soils- Practical Applications - Mohr-Coulomb failure criterion Mohr circle method for determination of principal planes and stresses- numerical problems relationship between shear parameters and principal stresses [no derivation required} Brief discussion of direct shear test, tri-axial compression test, vane shear test and unconfined compression test. Applicability - numerical problems -UU and CD tests [Brief discussion only] - Concepts of liquefaction	7





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5	Compressibility and Consolidation - Void ratio versus pressure relationship - Coefficient of compressibility and volume compressibility Compression index Practical Applications - Change in void ratio method - Height of solids method - Normally consolidated, under consolidated and over consolidated states - Estimation of pre consolidation pressure - Practical Applications - Estimation of magnitude of settlement of normally consolidated clays - Numerical problems Terzaghi's theory of one-dimensional consolidation(no derivation required) - average degree of consolidation Time factor - Coefficient of consolidation - Practical Applications - Square root of time and logarithm of time fitting methods - Numerical problems	8
6	Stability of finite slopes - Toe failure, base failure, slip failure - Swedish Circle Method- Friction circle method- Factor of safety with respect to cohesion and angle of internal friction - Stability number - Stability charts. Compaction of soils - Standard Proctor, Modified Proctor, I.S. light & Heavy Compaction Tests OMC - Zero Air voids line - Control of compaction - numerical problems	8

TEXT / REFERENCE BOOKS:

T/R	BOOK TITLE/AUTHORS/PUBLICATION
1	Das B. M., Principles of Geotechnical Engineering, Cengage India Pvt. Ltd., 2010.
1	A V Narasimha Rao and C Venkatramaiah, Numerical Problems, Examples and Objective questions in Geotechnical Engineering, Universities Press (India) Ltd., 2000
2	Ranjan G. and A. S. R. Rao, Basic and Applied Soil Mechanics, New Age International, 2002.
2	Arora K. R., Geotechnical Engineering, Standard Publishers, 2006
3	Purushothamaraj P., Soil Mechanics and Foundation Engineering, Dorling Kindersley(India) Pvt. Ltd., 2013
4	Taylor D.W., Fundamentals of Soil Mechanics, Asia Publishing House, 1948.
5	Terzaghi K. and R. B. Peck, Soil Mechanics in Engineering Practice, John Wiley, 1967.
6	Venkatramaiah, Geotechnical Engg, Universities Press, 2000.

COURSE PRE-REQUISITES:

C.CODE	COURSE NAME	DESCRIPTION	SEM
1	CE 205 Engineering Geology		3



Sunny Joseph
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DEPARTMENT OF MECHATRONICS ENGINEERING

EE209 ELECTRICAL TECHNOLOGY

List of slow learners

Attendance List

Sl.No	Reg.No	Name of the Student	24/09/19	01/10/19	15/10/19	29/10/19	13/11/19
1	JEC18MC006	ALVIN ANTO	×	×	×	×	×
2	JEC18MC011	ASTIN K SEBY	×	×	×	×	×
3	JEC18MC028	MOHAMMED ZEESHAAN P K	×	Ab	×	×	×
4	JEC18MC037	SREENATH K BALAN	×	×	×	×	×
5	JEC18MC035	SIJO JOSE	×	×	×	×	×
6	JEC18MC038	SUSAN JACKSON	×	×	Ab	×	×

True Copy Attested

amo
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DEPARTMENT OF MECHANICAL ENGINEERING ME403: ADVANCED ENERGY ENGINEERING LIST OF SLOW LEARNERS Attendance Sheet

SL NO	REG.NO	NAME OF STUDENT	14/11/19	15/11/19	16/11/19	18/11/19	19/11/19	20/11/19	21/11/19	22/11/19	23/11/19
1	JEC16ME001	ABDUL SHUKKOR T H	a	/	/	/	/	/	/	/	a
2	JEC16ME005	ABHISHEK BABU	/	/	a	/	/	a	/	/	/
3	JEC16ME008	ADARSH GOVIND K M	/	/	a	/	/	/	a	/	/
4	JEC16ME031	BISTON THOMAS	/	/	/	/	/	/	/	a	a
5	JEC16ME037	DEEPU SASI	/	/	/	a	/	/	/	/	/
6	JEC16ME044	FRANCO C PIOUS	/	/	/	/	/	/	/	/	/
7	JEC16ME065	JOHN DENNIS	/	a	/	a	/	/	/	a	a
8	JEC16ME084	M.NANDITH ARABINDH	/	/	/	/	/	/	/	/	a
9	JEC16ME085	MOHAMMED YASIN P P	a	/	/	/	/	/	/	/	/
10	JEC16ME091	NITHIN P	a	/	/	/	a	/	/	/	/
11	JEC16ME099	RICHU JOSEPH	a	/	/	a	a	/	/	/	a
12	JEC16ME114	SREERAG M	/	/	/	/	a	/	/	/	/
13	JEC16ME118	VISHNU G NAIR	/	/	a	/	a	/	/	/	/


Signature of Staff




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PREFACE OF THE SUBJECT

Name of the Faculty : JITHIN K KURIAKOSE
Designation : Assistant Professor
Name of the Subject : ADVANCED ENERGY ENGINEERING
Subject Code : ME403
Year : 2016
Semester : S7
Academic Year : 2019-2020
Regulation : KTU 2015

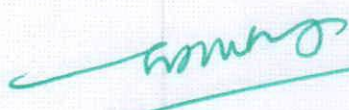
Proposed by:

JITHIN K KURIAKOSE
Assistant Professor
Mechanical Engineering



Approved by:

Prof. Dr. Biju P. L.
Head of the Department
Mechanical Engineering


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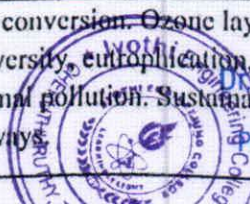
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COURSE INFORMATION SHEET

PROGRAMME: Mechanical Engineering (A)	DEGREE: B.TECH
COURSE: ADVANCED ENERGY ENGINEERING	SEMESTER: S7 CREDITS: 3
COURSE CODE: ME403 REGULATION: KTU 2015	COURSE TYPE: Theory
COURSE AREA/DOMAIN: THERMAL ENGINEERING	CONTACT HOURS: 3
CORRESPONDING LAB COURSE CODE (IF ANY): -	LAB COURSE NAME: -

LLABUS:

S/N	DETAILS	HOURS
	Introduction to the course. Global and Indian energy resources, Energy Demand and supply. Components, layout and working principles of steam, hydro, nuclear, gas turbine and diesel power plants.	7
	Solar Energy- passive and active solar thermal energy. Solar collectors. Solar thermal electric systems. Solar photovoltaic systems. Economics of solar power, Sustainability attributes.	7
	Wind Energy-Principle of wind energy conversion system. Wind data and energy estimation. Wind turbines. Aerodynamics of wind turbines. Wind power economics, Introduction to solar-wind hybrid energy systems.	7
	Biomass Energy Biomass as a fuel. Thermo-chemical. Bio-chemical and agro-chemical conversion of biomass. Pyrolysis, gasification. Combustion. Fermentation, transesterification, economics of biomass power generation, future prospects.	6
	Other Renewable Energy sources Brief account of Geothermal. Tidal. Wave., MHD power generation. Small, mini and micro hydro power plants. Fuel cells general description, types, applications. Hydrogen energy conversion systems, hybrid systems- Economics and technical feasibility.	8
	Environmental impact of energy conversion. Ozone layer depletion, global warming, greenhouse effect. Loss of biodiversity, eutrophication, acid rain. Air and water pollution, land degradation, thermal pollution. Sustainable energy promoting technologies, development pathways.	



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APJ Abdul Kalam Technological University, Trichy
Department of Mechanical Engineering, Jyothi Engineering College
Trichy, Tamil Nadu 620 022

LIVERY / INSTRUCTIONAL METHODOLOGIES:

TALK & TALK	<input checked="" type="checkbox"/> STUD. ASSIGNMENT	<input checked="" type="checkbox"/> WEB RESOURCES	<input checked="" type="checkbox"/> NPTEL/OTHERS
CD/SMART BOARDS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> WEBINARS

ASSESSMENT METHODOLOGIES-DIRECT:

ASSIGNMENTS	<input checked="" type="checkbox"/> STUD. SEMINARS	<input checked="" type="checkbox"/> TESTS/MODEL EXAMS	<input checked="" type="checkbox"/> UNIV. EXAMINATION
STUD. LAB PRACTICES	<input type="checkbox"/> STUD. VIVA	<input type="checkbox"/> MINI/MAJOR PROJECTS	<input type="checkbox"/> CERTIFICATIONS
ADD-ON COURSES	<input type="checkbox"/> Others		

ASSESSMENT METHODOLOGIES-INDIRECT:

ASSESSMENT OF COURSE OUTCOMES (BY FEEDBACK ONCE)	<input checked="" type="checkbox"/> STUDENT FEEDBACK ON FACULTY (TWICE)
ASSESSMENT OF MINI/MAJOR PROJECTS BY EXP. EXPERTS	<input type="checkbox"/> Others

INNOVATIONS IN TEACHING/LEARNING/EVALUATION PROCESSES:

No	DESCRIPTION
	Previous solved university question paper is available for students from Answer repository.

Proposed by:

JITHIN K KURIAKOSE
Assistant Professor
Mechanical Engineering



Approved by:

Prof. Dr. Biju P. L.
Head of the Department
Mechanical Engineering

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DRAFT PROPOSAL FOR REMEDIAL CLASS

After discussing with the Principal and Committee Members of Remedial Class the following suggestions are put forward for approval-

- Remedial class must be arranged to 3 courses in each semester based on the difficulty level of courses and the sessional result analysis. Each Department has to identify the courses for each semester.
- For conduct of remedial class, the tutorial hour can be utilized if the topics in that course can be completed with the remaining hours.
- Last hours of 3 days in a week can be utilized for remedial classes. Each Department has to allocate the hours suitably considering regular timetable hours. (Dates suggested are November - 13, 14, 15, 21, 22, 23, 26, 27, 28).
- After completing the Lab/Workshop Exams, the regular lab/workshop hours can be converted into theory hours and may be utilized for remedial classes.
- On analyzing the semester time table of all classes, it is noticed that most of the courses have an extra hour except the following courses listed have allotted more than one extra hour. Along with those hours few more hours like CC/LIB and PAT may also be utilized for remedial classes.

	S1	S3	S5	S7
CE	MA101, CY100, BE100	CE201	CE309, PAT-1Hour	PAT-2Hours
CSE	MA101, PH100	PAT-1Hour	PAT-1Hour	PAT-2Hours
ECE	MA101, CY100, BE100	EC205	PAT-1Hour	EC403, EC407
EEE	MA101, CY100, BE100	EE207	PAT-1Hour	PAT-2Hours
ME	MA101, PH100	ME210	EE311, PAT-1Hour	ME405, ME451
MR	MA101, CY100, BE100	CC/LIB-1Hour	NA	NA

→ Remedial on 30th & 1st

→ Ask students on choosing remedial subjects
↳ Through class tutors.

Handwritten signature

ANIL. A. BALAKRISHNAN, AP-EEE
REMEDIAL CLASS COORDINATOR

Handwritten signature

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Remedial Class Time table SS-ME(B)

Time : 03.35 - 4.30 pm
Venue : S3 ME-B Class Room

Sl No.	Date	Subject Code	Subject Name	Faculty In- Charge
01	13-11-2018	ME 201	MOS	Boju.c.v
02	14-11-2018	MA 201	LACA	Mimu Jose
03	15-11-2018	ME 205	TD	Nisha Sherief
04	21-11-2018	ME 205	TD	Nisha Sherief
05	22-11-2018	ME 201	MOS	Boju.c.v
06	23-11-2018	ME 201	MOS	Boju.c.v
07	26-11-2018	ME 205	TD	Nisha Sherief
08	27-11-2018	MA 201L	LACA	Mimu Jose
09	28-11-2018	MA 201	LACA	Mimu Jose

Name and Signature of Class tutor
Signature of Department HOD

Nisha Sherief
Boju.c.v

Remedial Class Time table SS-ML(B)

Time : 03.35 - 4.30 pm
Venue : S5 ME-B Class Room

Sl No.	Date	Subject Code	Subject Name	Faculty In- Charge
01	13-11-2018	ME 301	MOM	Mr. Sheik Aftab
02	14-11-2018	EE 311	EDCA	Mr. Tithink Jose
03	15-11-2018	ME 305	CPNM	Fr. Dr. A.K. George
04	21-11-2018	ME 301	MOM	Mr. Sheik Aftab
05	22-11-2018	ME 305	CPNM	Fr. Dr. A.K. George
06	23-11-2018	ME 301	MOM	Mr. Sheik Aftab
07	26-11-2018	EE 311	EDCA	Mr. Tithink Jose
08	27-11-2018	ME 305	CPNM	Fr. Dr. A.K. George
09	28-11-2018	EE 311	EDCA	Mr. Tithink Jose

Name and Signature of Class tutor
Signature of Department HOD

Nisha Sherief
Boju.c.v

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JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY									
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING									
YEAR OF ADMISSION: 2015			ACADEMIC YEAR: 2018 - 2019			MONTH: JAN - MAY			
SPECIAL TIME TABLE FOR EIGHTH SEMESTER ECE (16/05/2019 TO 17/05/2019)									
DAY / TIME	1	2	3	4	5	6	7	8	
	09.00-09.55	09.55-10.50	11.00-11.55	11.55-12.45	12.45-1.35	01.35-02.30	02.40-03.35	03.35-04.30	
THU	NE	ACS	PROJECT	ACS		NDE	NE	MSCD/SC	
	09.00-09.50	09.50-10.40	10.50-11.40	11.40-12.30	12.30-01.50	01.50-02.40	02.50-03.40	03.40-04.30	
FRI	ACS	NE	ACS	NE	LUNCH BREAK	PROJECT			
EC402	NE	NANO ELECTRONICS				Dr. PRAJOON P			
EC404	ACS	ADVANCED COMMUNICATION SYSTEMS				Mr. PONMANI RAJA			
EC464/EC468	MSCD/SC	MIXED SIGNAL CIRCUIT DESIGN/ SECURE COMMUNICATION				Mr. RIJO P C / Ms. ESHNY M I			
ELECTIVE 5	NDE	NON-DEPARTMENTAL ELECTIVE							
EC 492		PROJECT				Mr. JINESH K J / Ms. NYTHI K A			

CLASS TUTORS
Mr. PONMANI RAJA M
Ms. ROSHNI RAJAN K

[Handwritten signatures]

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HOD

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JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY								
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING								
YEAR OF ADMISSION: 2016			ACADEMIC YEAR: 2018 - 2019			MONTH: JAN - MAY		
SPECIAL TIME TABLE FOR SIXTH SEMESTER ECE B (15/05/2019 TO 17/05/2019)								
DAY / TIME	1	2	3	4	5	6	7	
	09.00-09.55	09.55-10.50	11.00-11.55	11.55-12.45				
WED	ES	OOP	RB/DIP	DC		AWP	ES	DC
THU	VLSI	AWP	DC	OOP		RB/DIP	DC	ES
	09.00-09.50	09.50-10.40	10.50-11.40	11.40-12.30	12.30-01.50	01.50-02.40	02.50-03.40	03.40-04.30
FRI	OOP	VLSI	DC	RB/DIP	LUNCH BREAK	AWP	VLSI	AWP
EC302	DC	DIGITAL COMMUNICATION			Mr. DIPIN KRISHNAN R			
EC304	VLSI	VLSI				Mr. RIJO P C		
EC306	AWP	ANTENNA & WAVE PROPAGATION			Ms. BINDHU S			
EC308	ES	EMBEDDED SYSTEMS			Fr. DAVID NETTIKADAN			
EC312	OOP	OBJECT ORIENTED PROGRAMMING			Mr. JINESH K J			
EC368/EC370	RB/DIP	ROBOTICS / DIGITAL IMAGE PROCESSING			Mr. VIVEK LUKOSE / Dr. ANOOP V			

CLASS TUTORS

Ms. NEETHU ROSE THOMAS

[Handwritten Signature]

[Handwritten Signature]
HOD, ECE

[Handwritten Signature]

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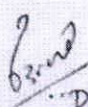
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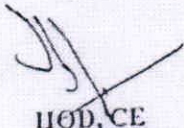
DEPARTMENT OF CIVIL ENGINEERING

CE

REMEDIAL CLASS TIME TABLE 2018-19 (7th hour)

Date	S3	S5	S7
13/11/18 (Tue)	LACA	GE	QSV
14/11/18 (W)	FM	SAII	SAIII
15/11/18 (Th)	MOS	DCSI	DSS
21/11/18 (W)	FM	GE	QSV
22/11/18 (Th)	MOS	DCSI	DSS
23/11/18 (F)	LACA	SAII	SAIII
26/11/18 (M)	LACA	SAII	QSV
27/11/18 (Th)	MOS	DCSI	SAIII
28/11/18 (W)	FM	GE	DSS


Dr. NIDHI M
REMEDIAL COORDINATOR


UOD, CE

Romy

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Cheruthuruthy P.O.-679 531

Jyothi Engineering College
Computer Science and Engineering
Remedial Class Schedule

7th Hour S3 CSE A

Date	Subject / Handled by
13-11-2018 Tuesday	Electronics Devices & Circuits Ms.ASHA JOHN
14-11-2018 Wednesday	Switching Theory and Logic Design Ms.NAMITHA T N
15-11-2018 Thursday	Data Structures Mr.UNNIKRISHNAN
21-11-2018 Wednesday	Switching Theory and Logic Design Ms.NAMITHA T N
22-11-2018 Thursday	Data Structures Mr.UNNIKRISHNAN
23-11-2018 Friday	Electronics Devices & Circuits Ms.ASHA JOHN
26-11-2018 Monday	Data Structures Mr.UNNIKRISHNAN
27-11-2018 Tuesday	Electronics Devices & Circuits Ms.ASHA JOHN
28-11-2018 Wednesday	Switching Theory and Logic Design Ms.NAMITHA T N

Sunny Joseph

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CSE

Jyothi Engineering College
Computer Science and Engineering
Remedial Class Schedule

7th Hour S5 CSE A

Date	Subject / Handled by
13-11-2018 Tuesday	Graph Theory and Combinatorics Ms. Seenia Francis
14-11-2018 Wednesday	Microprocessors and Microcontrollers Ms. Ninu Francis
15-11-2018 Thursday	Graph Theory and Combinatorics Ms. Seenia Francis
21-11-2018 Wednesday	Theory of Computation Ms. Reshma K V
22-11-2018 Thursday	Graph Theory and Combinatorics Ms. Seenia Francis
23-11-2018 Friday	Theory of Computation Ms. Reshma K V
26-11-2018 Monday	Microprocessors and Microcontrollers Ms. Ninu Francis
27-11-2018 Tuesday	Theory of Computation Ms. Reshma K V
28-11-2018 Wednesday	Graph Theory and Combinatorics Ms. Seenia Francis

Reshma

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EEE

JYOTHI ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
REMEDIAL TIME TABLE

Date	S3		S5		S7		Remarks
	Period	Subject	Period	Subject	Period	Subject	
13-11-2018	7	CN	7	LCS	4	DSP/4	
					3	EMD/3	
14-11-2018	7	AE	7	SS			
15-11-2018	7	DCMT	7	MPES	7	ESD	
21-11-2018	7	AE	7	LCS	7	DSP	
22-11-2018	7	DCMT	7	SS	7	EMD	
23-11-2018	7	CN	6	MPES/6	7	ESD	
26-11-2018	7	CN	7	LCS	7	ESD	
27-11-2018	7	DCMT	7	MPES	4	DSP/4	
					3	EMD/3	
28-11-2018	7	AE	7	SS			

Remedial Class Coordinator/Time Table Coordinator

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HOD EEE

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Dr. J. J. T.

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Remedial Class Time table SS-ME(A)

Time	03.35 - 4.30 pm			
Venue	SS ME-A Class Room			
Sl No	Date	Subject Code	Subject Name	Faculty In-Charge
		MA701	CAIA	Mr. Panga James
02	14-11-2018	ME 205	TD	Devgan Jay
03	15-11-2018	ME 201	MOS	Haseeth N.V
04	21-11-2018	MA201	CAIA	Panga James
05	22-11-2018	ME 205	TD	Devgan Jay
		ME 201	MOS	Shreshth A.V
		MA201	CAIA	Panga James
08	27-11-2018	ME 205	TD	Devgan Jay
09	28-11-2018	ME 201	MOS	Haseeth N.V

Name and Signature of Class tutor
 Signature of Department HOD

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Remedial Class Time table SS-ME(A)

Time	03.35 - 4.30 pm			
Venue	SS ME-A Class Room			
Sl No	Date	Subject Code	Subject Name	Faculty In-Charge
01	13-11-2018	EE 311	GDCA	Ms. Senthil
	14-11-2018	ME 305	CPNM	Dr. Dr. AKG
02	15-11-2018	ME 301	MMN	Mr. Suresh S
04	21-11-2018	ME 305	CPNM	Dr. Dr. AKG
05	22-11-2018	ME 301	MMN	Mr. Suresh S
06	23-11-2018	ME 301	MMN	Mr. Suresh S
		EE 311	GDCA	Ms. Senthil
08	27-11-2018	EE 311	GDCA	Ms. Senthil
09	28-11-2018	ME 305	CPNM	Dr. Dr. AKG

Name and Signature of Class tutor
 Signature of Department HOD

[Handwritten signature: Suresh V. Senthil]
[Handwritten signature: Panga James]
[Handwritten signature: Senthil]

FIRST SEMESTER																												
Sl. No.	Course Code	SICF						SICSE-A						SICSE-B						SICSE-E								
		Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed		
		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P
1	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0
2	CY100	4	1	0	3	1	0	PH100	4	1	0	3	1	0	PH100	4	1	0	3	1	0	CY100	4	1	0	3	1	0
3	BE100	5	1	0	3	1	0	BE110	2	1	3	1	1	3	BE110	2	1	3	1	1	3	BE100	5	1	0	3	1	0
4	BE101-01	3	1	0	2	1	0	BE101-05	3	1	0	2	1	0	BE101-05	3	1	0	2	1	0	BE101-03	3	1	0	2	1	0
5	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1
6	EE100	2	1	0	2	1	0	CE100	2	1	0	2	1	0	CE100	2	1	0	2	1	0	CE100	2	1	0	2	1	0

Sl. No.	Course Code	SIECE-A						SIMR						SIME-A						SIME-B								
		Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed		
		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P
1	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0	MA101	4	1	0	3	1	0
2	CY100	4	1	0	3	1	0	CY100	4	1	0	3	1	0	PH100	4	1	0	3	1	0	PH100	4	1	0	3	1	0
3	BE100	5	1	0	3	1	0	BE100	5	1	0	3	1	0	BE110	2	1	3	1	1	3	BE110	2	1	3	1	1	3
4	BE101-04	3	1	0	2	1	0	BE101-02	3	1	0	2	1	0	BE101-02	3	1	0	2	1	0	BE101-02	3	1	0	2	1	0
5	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1	BE103	3	0	0	2	0	1
6	ME100	2	1	0	2	1	0	EC100	2	1	0	2	1	0	EC100	2	1	0	2	1	0	EC100	2	1	0	2	1	0

R. Conally

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THIRD SEMESTER

Sl. No.	S3CE						S3CSE-A						S3CSE-B						S3EEF									
	Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed		
		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P
1	MA201	5	0	0	3	1	0	MA201	4	1	0	3	1	0	MA201	4	1	0	3	1	0	MA201	5	0	0	3	1	0
2	CE201	6	0	0	3	1	0	CS201	4	1	0	3	1	0	CS201	4	1	0	3	1	0	EE201	5	0	0	3	1	0
3	CE203	6	0	0	3	1	0	CS203	4	1	0	3	1	0	CS203	4	1	0	3	1	0	EE203	5	0	0	3	1	0
4	CE205	4	0	0	3	0	1	CS205	4	1	0	3	1	0	CS205	4	1	0	3	1	0	EE205	5	0	0	3	1	0
5	CE207	4	0	0	3	0	0	CS207	4	0	0	3	0	0	CS207	4	0	0	3	0	0	EE207	5	0	0	2	1	0
6	HS200	4	0	0	3	0	0	HS200	4	0	0	3	0	0	HS200	4	0	0	3	0	0	HS210	4	0	0	2	0	2

Sl. No.	S3ECE-A						S3MR						S3ME-A						S3ME-B									
	Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed			Course Code	Actual			Prescribed		
		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P		L	T	P	L	T	P
1	MA201	5	0	0	3	1	0	MA201	5	0	0	3	1	0	MA201	4	1	0	3	1	0	MA201	4	1	0	3	1	0
2	EC201	5	0	0	3	1	0	MR201	5	0	0	3	1	0	ME201	4	1	0	3	1	0	ME201	4	1	0	3	1	0
3	EC203	4	0	0	3	1	0	EC218	5	0	0	3	1	0	ME203	4	1	0	3	1	0	ME203	4	1	0	3	1	0
4	EC205	6	0	0	3	1	0	EC216	5	0	0	3	1	0	ME205	4	1	0	3	1	0	ME205	4	1	0	3	1	0
5	EC207	4	0	0	3	0	0	MR205	4	0	0	3	0	0	ME210	5	0	0	3	0	0	ME210	5	0	0	3	0	0
6	HS200	4	0	0	3	0	0	HS210	4	0	0	2	0	2	HS210	4	0	0	2	0	2	HS210	4	0	0	2	0	2

Remarks

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