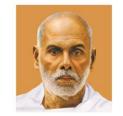


Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

CURRICULUM OF MTECH 2015 SCHEME

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY



Cluster No. 10 for PG Programs

(Engineering Colleges in Kannur, Wayand & Kasaragod Districts)

Curriculum, Syllabi and Course plan for M. Tech. Degree Program with effect from Academic Year 2015 - 2016

CIVIL ENGINEERING BRANCH

M. Tech.

COMPUTER AIDED STRUCTURAL ENGINEERING

(No. of Credits: 66)

B. MARY SONIA GEORGE ASSOCIATE PROFESSOR & HOD

ASSOCIALE PROFESSIONE ASSOCIALE PROFESSION ASSOCIAL PROFES

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR

SEMESTER 1

Examination Slot	ber	· · · · · · · · · · · · · · · · · · ·		ks		End Semester Examination		
	Course Number	Name	L-T-P	Internal Marks	Marks	Duration (hours)	Total Marks	Credits
A	10CE6101	Advanced Numerical Methods	3-0-0	40	60	3	100	3
В	10CE6103	Theory of Elasticity	3-1-0	40	60	3	100	4
С	10CE6105	Structural Dynamics	3-0-0	40	60	3	100	3
D	10CE6107	Advanced Theory and Design of RC Structures	3-1-0	40	60	3	100	4
Е	10CE61xx	Elective -I	3-0-0	40	60	3	100	3
S	10GN6001	Research Methodology	0-2-0	100			100	2
T	10CE6109	Seminar - I	0-0-2	100			100	2
U	10CE6111	Structural Engineering and Computational Lab	0-0-2	100			100	1
		TOTAL	15-4-4	500	300	-	800	22

TOTAL CONTACT HOURS

23

TOTAL CREDITS

22

Elective

10CE6113 Advanced Concrete Technology

10CE6115 Forensic Engineering

10CE6117 Structural Optimisation

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Dr. LEENA A. V.
PRINCIPAL

SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY, PAYYANUR
KANNUR

Branch: Civil Engineering Stream: Computer Aided Structural Engineering

SEMESTER 2

Slot	ber			ks	End Semester Examination			
Examination	Course Number	Name	L-T-P	Internal Marks	Marks	Duration (hours)	Total Marks	Credits
A	10CE6102	Advanced Metal Structures	3-0-0	40	60	3	100	3
В	10CE6104	Finite Element Method	3-0-0	40	60	3	100	3
С	10CE6106	Analysis and Design of Earthquake Resistant Structures	3-0-0	40	60	3	100	3
D	10CE61xx	Elective -II	3-0-0	40	60	3	100	3
E	10CE61xx	Elective-III	3-0-0	40	60	3	100	3
V	10CE6108	Mini Project	0-0-4	100			100	2
U	10CE6112	Structural Engineering Design Studio Lab	0-0-2	100			100	1
		TOTAL	15-0-6	400	300	-	700	18

21

18

TOTAL CONTACT HOURS : TOTAL CREDITS :

Elective -II

10CE6114 Theory of Plates and Shells10CE6116 Composite Structures10CE6118 Fracture Mechanics

Elective -III

10CE6122 Advanced Prestressed Concrete Design
 10CE6124 Analysis and Design of Substructures
 10CE6126 High Rise Structures

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SEMESTER 3

Examination Slot	Course Number	Name	L-T-P	Internal Marks		Duration (hours)	Total Marks	Credits
A	10CE71xx	Elective -IV	3-0-0	40	60	3	100	3
В	10CE71xx	Elective-V	3-0-0	40	60	3	100	3
Т	10CE7101	Seminar-II	0-0-2	100			100	2
V	10CE7103	Project (Phase 1)	0-0-12	50			50	6
		TOTAL	6-0-14	230	120	-	350	14

TOTAL CONTACT HOURS

20

TOTAL CREDITS

14

Elective-IV

10CE7105	Design of Bridges
10CE7107	Structural Reliability

10CE7109 Theory of Plasticity

Elective-V

10CE7111 Stability of structures

10CE7113 Random Vibration

10CE7115 Advanced Finite Element Analysis

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KANNUR

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SEMESTER 4

Slot	ber			ks	End Semester Examination			
Examination	Course Number	Name	L-T-P	Internal Marks	Marks	Duration (hours)	Total Marks	Credit
V	10CE7104	Project (Phase 2)	0-0-23	70	30		100	12
		TOTAL	0-0-23	70	30	-	100	12

TOTAL CONTACT HOURS

23

TOTAL CREDITS

12

TOTAL NUMBER OF CREDITS: 66

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