



# SATHYABAMA UNIVERSITY

(Established under Section 3 of UGC Act, 1956)  
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119  
www.sathyabamauniversity.ac.in



## FACULTY OF BUILDING AND ENVIRONMENT DEPARTMENT OF CIVIL ENGINEERING

### BOARD OF STUDIES MEETING - Academic year 2016-2017

The periodic Board of studies meeting for the Department of Civil Engineering, School of Building and Environment will be held on 20.04.2016 at 1.00 pm

#### **Internal members**

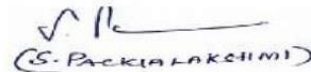
1. Dr. S.Packialakshmi, Head and Associate Professor, Department of Civil Engineering
2. Dr.R.Padmapriya, Associate Professor, Department of Civil Engineering
3. Mrs. C. S Danee Joycee, Associate Professor, Department of Civil Engineering
4. Mrs. A. Annadurai, Associate Professor, Department of Civil Engineering

#### **External members**

1. Dr. Arul Jayachandran, Structural Engineering Division, IIT Madras, India.
2. Dr. K. Gunasekaran, Associate Professor, Division of Transportation Engineering, Anna University
3. Dr. S.T. Ramesh, Associate Professor, NIT Trichy
4. Dr. V. Balakumar, Senior Consultant at Simplex Infrastructurs Ltd
5. Ar. Rajan Venkateshwaran, Head, centre for Excel & Future Development, L&T

#### **Agenda:**

1. Review of Curriculum of both UG and PG programmes for the upcoming Academic Year
2. Implementation of Professional Training - I for UG Programmes

  
(S. Packialakshmi)

**HOD/CIVIL**



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**FACULTY OF BUILDING AND ENVIRONMENT**  
**DEPARTMENT OF CIVIL ENGINEERING**

**Minutes of the BOS Meeting - Academic year 2016-2017**


The first periodic Board of Studies Meeting for the Academic Year 2016-2017 (both UG and PG programme) is held on 20<sup>th</sup> April, 2016 at 1.00 pm at CADD Lab - I, Civil Engineering Dept.

**Members Present**

1. Dr. Arul Jayachandran, Structural Engineering Division, IIT Madras, India.
2. Dr. K. Gunasekaran, Associate Professor, Division of Transportation Engineering, Anna University
3. Dr. S.T. Ramesh, Associate Professor, NIT Trichy
4. Dr. V. Balakumar, Senior Consultant at Simplex Infrastructures Ltd
5. Ar. Rajan Venkateshwaran, Head, centre for Excel & Future Development, L&T
6. Dr. S.Packialakshmi, Head and Associate Professor, Department of Civil Engineering
7. Dr.R.Padmapriya, Associate Professor, Department of Civil Engineering
8. Mrs. C. S Danee Joycee, Associate Professor, Department of Civil Engineering
9. Mrs. A. Annadurai, Associate Professor, Department of Civil Engineering



- After a detailed discussion on industrial demands of Civil Engineering field in view of agenda focused, the Board of Studies members Ar. Rajan Venkateshwaran, Head, centre for Excel & Future Development, L&T and Dr. V. Balakumar, Geotechnical Consultant has given suggestions that the Curriculum for the courses in the upcoming semester is reviewed and to meet out the requirements of skill development / Employability / Entrepreneurship liability for the students, the Professional Training Course must be incorporated in the curriculum of second year of UG programmes to acquire knowledge on the industrial projects.

  
(S. Packialakshmi)

**HOD/CIVIL**

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**EXPERT MEMBERS**

# PROGRAMME: B.E. CIVIL ENGINEERING CURRICULUM

## SEMESTER I

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SMT 1101	Engineering Mathematics I	3	1	0	4	1
2.	SPH 1101	Physics of Engineering Materials	3	0	0	3	2
3.	SCY 1101	Engineering Chemistry	3	0	0	3	4
4.	SCS 1102	Fundamentals of Programming	3	0	0	3	5
5.	SCI 1101	Engineering Mechanics	3	0	0	3	6
6.	SCI 1102	Construction Materials	3	0	0	3	7
7.	SCI 4051	Engineering Graphics Lab	0	0	4	2	9
8.	SCS 4101	Programming in C Lab	0	0	4	2	11
<b>Total Credits</b>						<b>23</b>	

## SEMESTER II

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SHS 1101	English for Science and Technology	3	0	0	3	12
2.	SMT1105	Engineering Mathematics II	3	1	0	4	14
3.	SPH 1102	Physics of Electronic Devices	3	0	0	3	15
4.	SCY 1103	Chemistry of Industrial Materials	3	0	0	3	17
5.	SCI 1103	Construction Technology	3	0	0	3	18
6.	SCI 1104	Functional Design of Buildings	3	0	0	3	20
7.	SCI 4052	Material Testing Lab	0	0	4	2	22
8.	SPH 4051	Engineering Physics Lab	0	0	2	1	23
9.	SCY 4051	Engineering Chemistry Lab	0	0	2	1	24
<b>Total Credits</b>						<b>23</b>	

**L - LECTURE HOURS, T – TUTORIAL HOURS, P – PRACTICAL HOURS, C – CREDITS**

**SEMESTER III**

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SMT1201	Engineering Mathematics III	3	1	0	4	25
2.	SCI 1201	Mechanics of Solids I	3	1	0	4	27
3.	SCI 1202	Mechanics of Fluids	3	0	0	3	29
4.	SCI 1203	Surveying I	3	0	0	3	31
5.	SCI 1204	Highway Engineering	3	0	0	3	33
6.	SCI 1205	Engineering Geology	3	0	0	3	34
7.	SCI 4053	Surveying Lab I	0	0	4	2	36
8.	SCI 4054	Building Planning and Drawing	0	0	4	2	37
						<b>Total Credits</b>	<b>24</b>

**SEMESTER IV**

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SMT 1204	Engineering Mathematics IV /	3	1	0	4	38
2.	SCI 1206	Mechanics of Solids II	3	1	0	4	40
3.	SCI 1207	Applied Hydraulic Engineering	3	1	0	4	42
4.	SCI 1208	Railways, Airport and Harbour Engineering	3	0	0	3	44
5.	SCI 1209	Surveying II	3	0	0	3	46
6.	SCI 1210	Environmental Engineering I	3	0	0	3	48
7.	SCI 4055	Surveying Lab II	0	0	4	2	50
8.	SCI 4056	Hydraulic Engineering Lab	0	0	4	2	51
9.	<b>S20 PT 1</b>	<b>Professional Training I</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>5</b>	
						<b>Total Credits</b>	<b>30</b>

**SEMESTER V**

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SCI 1301	Structural Analysis I	3	1	0	4	52
2.	SCI 1302	Reinforced Concrete Structures I	3	1	0	4	53
3.	SCI 1303	Design of Steel Structures I	3	1	0	4	54
4.	SCI 1304	Soil Mechanics	3	0	0	3	55
5.	SCI 1305	Water Resources Engineering	3	0	0	3	57
6.	SCI 1306	Environmental Engineering II	3	0	0	3	59
7.	SCI 4057	Concrete Technology Lab	0	0	4	2	61
8.	SCI 4058	Environmental Engineering Lab	0	0	4	2	62
						<b>Total Credits</b>	<b>25</b>

**SEMESTER VI**

SI. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SCI 1307	Structural Analysis II	3	1	0	4	63
2.	SCI 1308	Reinforced Concrete Structures II	3	1	0	4	65
3.	SCI 1309	Design of Steel Structures II	3	1	0	4	67
4.	SCI 1310	Foundation Engineering	3	0	0	3	69
5.	SCI 1311	Estimation, Costing & Valuation	3	0	0	3	71
6.		Elective 1	3	0	0	3	
7.	SCI 4059	Soil Mechanics Lab	0	0	4	2	72
8.	SCI 4061	Computer Aided Design and Drafting Lab I	0	0	4	2	73
9.	S20 PT2	Professional Training II	0	0	10	5	
						<b>Total Credits</b>	<b>30</b>

**SEMESTER VII**

SI. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SBA 1101	Principles of Management & Professional Ethics	3	0	0	3	74
2.	SCI 1401	Irrigation Engineering	3	0	0	3	75
3.		Elective 2	3	0	0	3	
4.		Elective 3	3	0	0	3	
5.	SCI 4060	Highway Lab	0	0	4	2	77
6.	SCI 4062	Computer Aided Design and Drafting Lab II	0	0	4	2	78
7.		Project Work (Phase I)					
						<b>Total Credits</b>	<b>16</b>

**SEMESTER VIII**

SI. No.	COURSE CODE	COURSE TITLE	L	T	P	C	PAGE No.
1.	SCI 1402	Prestressed Concrete Structures	3	0	0	3	79
2.	SCI 1403	Construction Management	3	0	0	3	81
3.		Elective 4	3	0	0	3	
4.	S20 PROJ	Project Work (Phase I & II)	0	0	30	15	
						<b>Total Credits</b>	<b>24</b>

**Total Credits for the Programme 195**