

**DEPARTMENT OF CIVIL ENGINEERING**  
**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**SHARDA UNIVERSITY**

May 8, 2016

**Minutes of the Meeting**

**Subject: Approval of Courses and syllabi in the BOS held on May 08, 2016**

A meeting of the Board of Studies (BOS) of the Department of Civil Engineering was held on 8<sup>th</sup> May, 2016 at 10:00 am in the SET-I board room 105.

Following members were present.

1. Prof. R. L. Misri, ex-Prof, Civil, SU	Special Invitee
2. Prof. Satyaprakash, HOD, Civil, SU	Chairman
3. Prof. Nirendra Dev, HOD, Civil, DTU	External Member (from Academia)
4. Mr. Har Prasad, ex-Director, JP Infotech	External Member (from Industry)
5. Prof. V.K. Minocha, Principal, GEC (Delhi)	External Member (from Academia)
6. Ms Pinaki Prasanna Nayak	Internal Member
7. Prof. Prashant Mukherjee, Civil, SU	Internal Member
8. Dr. Gaurav Saini, Civil, SU	Internal member
9. Mr. Nishant Kumar, Civil, SU	Internal member

**The agenda of the Board of Studies meeting included:**

1. The revised course and credit structure of the B.Tech. CE for batch admitted in 2013 submitted for consideration.
2. The revised course and credit structure of the B.Tech. CE, for batch admitted in 2014 submitted for consideration.
3. The revised Course and Credit Structure B.Tech. CE, for batches admitted in 2015 onwards.

4. New Course and Credit structures of M.Tech. in Civil Engineering with specialization in Construction Management was presented for approval.

All the suggestions/comments were incorporated into the curriculum and approved.

Status: Approved

R. N. Misra

M. K. Jaiswal

N. S. Chandra

P. K. Jha

A. K. Singh

**B.Tech.**  
**in**  
**Civil Engineering**

**COURSE AND CREDIT STRUCTURE**



Department of Civil Engineering  
School of Engineering and Technology  
**SHARDA UNIVERSITY**

## SUMMARY SHEET

<b>Teaching Department</b>	:	Civil Engineering (SET)
<b>School</b>	:	School of Engineering and Technology
<b>Name of Course</b>	:	B.Tech. in Civil Engineering
<b>Duration</b>	:	Four Years
<b>Total number of Credits</b>	:	183-85/ 185-188(with Industrial Internship)
<b>Date of Meeting of BOS</b>	:	May 08, 2016
<b>Member of BOS</b>	:	

1. Prof. R. L. Misri, ex-Prof, Civil, SU	Special Invitee
2. Prof. Satyaprakash, HOD, Civil, SU	Chairman
3. Prof. Nirendra Dev, HOD, Civil, DTU	External Member (from Academia)
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8. Dr. Gaurav Saini, Civil, SU	Internal member
9. Mr. Nishant Kumar, Civil, SU	Internal member

Status:

**Approved**

**B. Tech ECE Course Structure for batch admitted in 2013**

Sem	Courses										Credits							
	Mathematics-3 (3-1-0) 4	Engineering Mechanics (3-1-0) 4	Principles of Surveying (3-0-2) 4	Soil Mechanics (3-1-2) 5	Communication Practices (2-0-2) 3	OOPS Programming using C++ (3-1-2) 5	Term Paper-1 (0-0-2) 1	Courses	Lab	L		T	P	Weekly Contact				
III								7	5	17	4	10	31	26				
IV	Structural Analysis (3-1-2) 5	Managerial Economics (3-0-0) 3	Fluid Mechanics (3-1-2) 5	Solid Mechanics (3-1-2) 5	Building Materials & Construction (3-0-2) 4	Engineering Hydrology (3-1-0) 4	Term Paper-2 (0-0-2) 1	6	4	18	4	10	32	27				
V	Open Elective-1 (4-0-0) 4	Geoinformatics Engg. (3-0-2) 4	Design of Concrete Structures (3-1-2) 5	Costing, Estimation & Building drawing (3-0-2) 4	Organizational Behavior (3-0-0) 3	Term Paper-3 (0-0-2) 1	6	4	16	1	8	25	21					
VI	Open Elective-2 (4-0-0) 4	Env Engg-1 (3-0-2) 4	Design of Steel Structures (3-1-0) 4	Transportation Engg-1 (3-0-2) 4	Professional Skills Enhancement (2-0-2) 3	Open Channel Flow (3-1-0) 4	Term Paper-4 (0-0-2) 1	6	4	18	2	8	28	24				
<b>Summer Industrial Training (0-0-4) 2</b>													1	0	0	4	4	2
VII	Dept. Elective-1 (3-0-0) 3	Open elective-3 (4-0-0) 4	Advanced Structural Analysis (3-1-2) 5	Project-1 (0-0-4) 2	Writing for technical purposes (3-0-0) 3	Dept. Elective-2 (3-0-0) 3	4	1	16	1	6	23	20					
VIII		Advanced RCC Structures (3-1-0) 4	Open Elective-4 (4-0-0) 4	Project-2 (0-0-16) 8	Dept. Elective-3 (3-0-0) 3	Human Resources Management (3-0-0) 3	5	1	16	1	16	33	25					

Total Credits: 142

First Year Credits: 41

**TOTAL: 183**

\*\*In lieu of summer training of six week duration (2 credits) and VII semester (20 credits), the student may opt for 24 credits, industrial internship



**B. Tech CE Course Structure for batches admitted in 2015 and onwards**

Semester	Courses										Credits		
	Functional English-I (2-0-2)3	Maths-I (3-2-0)4	Physics-I (3-1-0)4	Logic Building and Problem Solving (3-1-2)5	Chemistry (3-1-2)5	Manufacturing Sc Lab (0-0-4)2	Courses	Labs	L	T		P	Weekly Contact
I	Functional English-I (2-0-2)3	Maths-I (3-2-0)4	Physics-I (3-1-0)4	Logic Building and Problem Solving (3-1-2)5	Chemistry (3-1-2)5	Manufacturing Sc Lab (0-0-4)2	6	4	14	5	10	29	23
II	Functional English-II (2-0-2)3	Maths-II (3-2-0)4	Physics-III (3-1-2)5	Programming using C (3-0-2)4	Environment Science (2-0-0)2	PEEE (3-1-2)5	6	4	16	4	8	28	23
III	Object Oriented Programming (3-1-2) 5	Engineering Mechanics (3-1-0) 4	Principles of Surveying (3-0-2) 4	Fluid Mechanics (3-1-2) 5	Economics for Engineers (3-0-0) 3	Introduction to Mechanical Engg (3-0-4) 5	7	4	18	3	12	33	27
IV	Engg. Hydrology & Hydraulics (3-1-0) 4	Communication Practices-I (2-0-2) 3	Soil Mechanics (3-1-2) 5	Strength of Materials (3-1-2) 5	Building Materials (3-0-2) 4	Mathematics-3 /Introductory Mathematics (3-1-0) 4	7	4	17	4	10	31	26
V	Elective-1 (3-0-0) 3	Geoinformatics Engg. (3-0-2) 4	Highway Engg (3-0-2) 4	Structural Analysis (3-1-2) 5	Management for Engineers (3-0-0) 3	Env Engg-1 (3-0-2) 4	7	4	18	1	10	29	24
VI	Elective-2 (3-0-0) 3	Dept Elective-1 (3-0-0) 3	Quantity Surveying & Building Drawing (3-0-2) 4	Design of Concrete Structures (3-1-2) 5	Professional Skills Enhancement (2-0-4) 4	Term Paper-4 (0-0-2) 1	6	3	14	1	10	25	20
							1		0	0	4	4	2
<b>Summer Industrial Training (0-0-4) 2</b>													

VII*	Dept. Elective-2 (3-0-0) 3	Open Elective-1 (3-0-0) 3	Structural Analysis-II (3-1-2) 5	Project-I (0-0-4) 2	Project Management for Engineers (2-0-2) 3	Design of Steel Structures (3-0-0) 3	6	1	15	1	6	22	19
VIII		Advanced RCC Structures (3-1-0) 4	Open Elective-2 (3-0-0) 3	Project-2 (0-0-16) 8	Dept. Elective-3 (3-0-0) 3	Communication Practices-II (3-0-0) 3	6	0	12	1	16	29	21

Total Credits 185

\*\* In lieu of summer training of six week duration (2 credits) and VII semester (19 credits), the student may opt for 24 credits, industrial internship



**M.Tech.**  
**in**  
**Civil Engineering**  
**With specialization in**  
**CONSTRUCTION MANAGEMENT**  
**COURSE AND CREDIT STRUCTURE**  
(With effect from Academic Session 2016-17)



Department of Civil Engineering  
School of Engineering and Technology  
SHARDA UNIVERSITY

## SUMMARY SHEET

<b>Teaching Department</b>	:	Civil Engineering (SET)
<b>School</b>	:	School of Engineering and Technology
<b>Name of Course</b>	:	M.Tech. in Civil Engineering
<b>Duration</b>	:	Two Years
<b>Total number of Credits</b>	:	74
<b>Date of Meeting of BOS</b>	:	May 08, 2016
<b>Member of BOS</b>	:	

1. Prof. R. L. Misri, ex-Prof, Civil, SU	Special Invitee
2. Prof. Satyaprakash, HOD, Civil, SU	Chairman
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8. Dr. Gaurav Saini, Civil, SU	Internal member
9. Mr. Nishant Kumar, Civil, SU	Internal member

Status:

Approved

**COURSE STRUCTURE**

**M. Tech. in Civil Engineering with Specialization in Construction Management**

SEMESTER	Courses (L-T-P) Credits					Lecture Courses	Contact Hr/Week				Credits
							L	T	P	Total Hrs	
I	Construction Cost Analysis & Finances (3-0-0) 3	Project Planning and Management (4-0-0) 4	Construction Business Management (3-0-0) 3	Elective-1 (3-0-0) 3	Estimation and Quantity Surveying (3-1-0) 4	Construction Technology Lab (0-0-4) 2	17	1	6	24	21
	Construction Contracts and Laws (3-0-0) 3	Quantitative Methods in Construction Managements (4-0-0) 4	Bidding and Tendering Processes (3-0-0) 3	Elective-2 (3-0-0) 3	Construction Safety Management (3-1-0) 4						
III	Seminar (0-0-4) 2	Project (0-0-8) 4	Dissertation Part-1 (0-0-20) 10				-	-	-	16	16
IV	Dissertation Part-2 (0-0-32) 16						-	-	-	16	16

**Total Credits – 74**

L-lecture, T-tutorial, P-practical

**List of Electives:**

1. Building Services
2. Advance concrete technology
3. Rehabilitations of Structures
4. Structural Health Monitoring

5. **Tunnelling Technology**
6. **Timber and Formwork Design**
7. **Critical Chain Management**
8. **Sustainable Construction Practices**
9. **Principles of Affordable Housing**
10. **Leadership and Human Resource Management**
11. **Mechanical and Electrical Systems in Building**
12. **Composite Materials**