Savitribai Phule Pune University

Board of Studies in Civil Engineering

Structure for B.E. Civil 2012 Course (w.e.f.June 2015)

					Semester - I						
		Teaching Scheme Hrs/Week				Examination Scheme					
Subject code	Subject	Lect	Tu	Pr	In-Semester Assessment	TW	Or	End - Semes ter Exam	Total		
401 001	Environmental Engineering II	3		2	30	T-WITTE	50	70	150		
401 002	Transportation Engineering	3		2	30	50		70	150		
401 003	Structural Design and Drawing III	4		2	30		50	70	150		
401 004	Elective I	3		2	30	50		70	150		
401 005	Elective II	3			30	Trans.		70	100		
401 006	Project Phase I		2			50			50		
	Total →	16	2	8	150	150	100	350	750		

100000000000000000000000000000000000000					Semester - II	9				
	76 160:	Teaching Scheme Hrs/Week			3 % +2	Examination Scheme				
code code	Subject	Lect	Tu	Pr	In-Semester Assessment	TW	Or	End - Semes ter Exam	Total	
401 007	Dams and Hydraulic Structures	3	-	2	30		50	70	150	
401 008	Quantity Surveying, Contracts and Tenders	3	-	2	30		50	70	150	
401 009	Elective III	3		2	30	50		70	150	
401 010	Elective IV	3		2	30	50		70	150	
401 006	Project	11	6			50	100		150	
	Total →	12	6	8	120	150	200	280	750	

Following will be the list of electives..

DTE:6324
SPPU:4071
Dhangawadi
Pune
412206

Semester I

Elective-I 401 004

- 1.Structural Design of Bridges
- 2. Systems Approach in Civil Engineering
- 3.. Advanced Concrete Technology
- 4. Architecture and Town Planning
- 5. Advanced Engineering Geology with Rock Mechanics

Elective-II 401 005

- 1. Matrix Methods of Structural Analysis
- 2. Integrated Water Resources and Planning
- 3. TQM & MIS in Civil Engineering
- 4. Earthquake Engineering
- 5. Advanced Geotechnical Engineering

Semester II

Elective-III 401 009

- 1. Advanced Structural Design
- 2. Advanced Foundation Engineering
- 3. Hydropower Engineering
- 4. Air Pollution and control
- 5. Finite Element Method in Civil Engineering

Elective-IV 401 010

- 1 Construction Management
- 2. Advanced Transportation Engineering
- 3. Statistical Analysis and Computational Methods in Civil Engineering

4. Open Elective

- a). Plumbing Engineering
- b) Green Building Technology
- c) Ferrocement Technology
- d) Sub sea Engineering
- e)Wave Mechanics



SAVITRIBAI PHULE PUNE UNIVERSITY

BE (COMPUTER ENGINEERING)- 2012 COURSE STRUCTURE
Term-I

Subject Code	Subject	Teac	hing S	cheme	Ex	aminati 	on Sche	eme	Total Marks
985	*	Lect	Tut	Pract	In Sem Asmnt	PR/ TW	OR/ TW	End Sem Asmnt	
410441	Design & Analysis of Algorithms	03			30 *	-		70	100
410442	Principles of Modern Compiler Design	04			30		7	70	100
410443	Smart System Design and Applications	03		-	30			70	100
410444	Elective-I	03		122	30	-		70	100
410445	Elective-II	03	=	_	30	10	_	70	100
410446	Computer laboratory-I	-	F	04		50	50		100
410447	Computer Laboratory-II		-	04		50	50		100
410448	Project	-	02		11-11	50		-	50
	Total	16	02	08	150	150	100	350	750
	Term-II								
410449	Software Design Methodologies & Testing	03			30			70	100
410450	High Performance Computing	03	-		30			70	100
410451	Elective-III	03	-		30	-	-	70	100
410452	Elective-IV Open Elective	03	-		30			70	100
410453	Computer laboratory-III	-		04	100	50	50		100
410454	Computer Laboratory-IV		=	04	-	50	50		100
410455	Project	_	06	-	15-1	50	100		150
	Total	12	06	08	120	150	200	280	750

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Electives:

	Semester-I	Semester-II					
	ELECTIVE-I		ELECTIVE-III				
1.	Image Processing	1.	Mobile Computing				
2.	Computer Network Design and Modeling	2.	Web Technology				
3.	Advanced Computer Programming	3.	Cloud Computing				
4.	Data Mining Techniques and Applications	4.	Cyber Security				
	ELECTIVE-II		ELECTIVE-IV (Open Elective)				
1.	Problem Solving with Gamification	1.	Business Analytic and Intelligence				
2.	Pervasive Computing	2.	Operations Research for Algorithms in Scientific Applications				
3.	Embedded Security	3.	Mobile Applications				
4.	Multidisciplinary NLP+	4.	Open Elective				

Open Elective: The listed open electives or any other Elective that is being taught in the current semester (semester-II) under the faculty of engineering or individual college and Industry can define new elective with complete (6 units) syllabus using defined framework of Elective IV and GET IT APPROVED FROM THE BOARD OF STUDIES (COMPUTER ENGINEERING) AND OTHER NECESSARY STATUTORY SYSTEMS IN THE SAVITRIBAI PHULE PUNE UNIVERSITY BEFORE 30th DECEMBER.



BE (E & TC) Structure

2012 Course w.e.f. June 2015

Semester-I

		Teacl	hing Sch	eme		Exar	nination S	cheme		Marks
Subject Code	Subject*	LECT	TUT	PR	In Semester Assessment Phase I	PR	OR	TW	End Semester Examination Phase II	Total
404181	VLSI Design & Technology	3			30				70	100
404182	Computer Networks	3			30				70	100
404183	Microwave Engineering	4			30				70	100
404184	Elective I	3			30				70	100
404185	Elective II	3			30				70	100
404186	Lab Practice I (CN & MWE)			4			50	50		100
404187	Lab Practice II (VLSI &Elective I)		A	4		50		50		100
404188	Project Phase I		2		To the S		50	Table.		50
700	Total	16	2	8	150	50	100	100	350	750

Elective I

- 1. Digital Image Processing
- 2. Embedded Systems & RTOS
- 3. Software Defined Radio
- 4. Industrial Drives and Control

Elective II

- 1. Multi rate & Adaptive Signal Processing
- 2. Electronic Product Design
- 3. PLCs and Automation
- 4. Artificial Intelligence



Semester-II

		Teach	ning Sch	eme	Examination Scheme					
Subject Code	Subject	LECT	TUT	PR	In Semester Assessment Phase I	PR	OR	TW	End Semester Examination Phase II	Total
404189	Mobile Communication	4			30		H		70	100
404190	Broadband Communication Systems	4			30				70	100
404191	Elective III	3			30				70	100
404192	Elective IV	3			30				70	100
404193	Lab Practice III(MC & BCS)			4			50	50		100
404194	Lab Practice IV(Elective III)			2		50		50		100
404195	Project Phase II		6		1000	50		100		150
THE	Total	14	6	6	120	100	50	200	280	750

Elective III

- 1. Speech & Audio Signal Processing
- 2. RF Circuit Design
- 3. Audio Video Engineering
- 4. Soft Computing

Elective IV

- 1. Biomedical Signal Processing
- 2. Nano Electronics & MEMS
- 3. Detection & Estimation Theory
- 4. Wireless Networks
- 5. Open Elective*

Pune 412206

*Any one subject from the list of Elective IV of computer/IT/Electrical/Instruments or Institute can offer elective IV based on any industry need with prior approval from BoS(Electronics). Repetition of subjects or topics is to be avoided.

Dr. D. S. Borman, BOS(Electronics). Dhangawadi

Dr. D. S. Bormane Chairman, BOS(Electronics)

Savitribai Phule Pune University, Pune 2012 Course

B. E. (Mechanical) Semester - I

(w. e. f. Academic year 2015 - 16)

Code	Subject			Scheme ad in hrs)	Examination Scheme(Marks)						
		Lect.	Tut	Practical	In-Sem	End-Sem	TW	PR ⁺	OR ⁺	Total	
402041	Refrigeration and Air Conditioning	3		2	30	70	25		50	175	
402042	CAD/ CAM Automation	3		2	30	70		50		150	
402043	Dynamics of Machinery	4		2	30	70	25		50	175	
402044	Elective – I	3			30	70				100	
402045	Elective -II	3			30	70	-			100	
402046	Project –I		2				50*			50	
Total of	Semester – I	16	2	6	150	350	100	50	100	750	

B. E. (Mechanical) Semester - II

Code	Subject	Teaching Scheme (Weekly Load in hrs)			Examination Scheme(Marks)						
		Lect.	Tut	Practical	In-Sem	End-Sem	TW	PR ⁺	OR*	Total	
402047	Power Plant Engineering	4		2	30	70	25		50	175	
402048	Mechanical System Design	4		2	30	70			50	150	
402049	Elective-III	4		-	30	70				100	
402050	Elective- IV	4		2	30	70	25	12		125	
402051	Project - II		6				150		50	200	
Total of	Semester – II	16	6	6	120	280	200	LIMAL)	150	750	

^{+.} For all Oral/Practical heads: Examination will be based on term work and Theory Subject

^{*} Assessment should be carried out by panel of examiners from same Institute

	Elective-I		Elective-II
Code	Subject	Code	Subject
402044 A	Energy Audit Management	402045 A	Gas Turbine Propulsion
402044 B	Tribology	402045 B	Product Design and Development
402044 C	Reliability Engineering	402045 C	Operation Research
402044 D	Machine Tool Design	402045 D	Advanced Manufacturing Processes
	Elective-III		Elective-IV
Code	Subject	Code	Subject
402049 A	Refrigeration and Air Conditioning Equipment Design	402050 A	Computational Fluid Dynamics
402049 B	Robotics	402050 B	Finite Element Analysis
402049 C	Industrial Engineering	402050 C	Design of Pumps, Blowers and Compressors
402049 D	Open Elective **		0

^{**:} Open Elective — Board, of studies (BoS) - Mechanical will declare the list of subjects which can be taken under open electives or any other Electives that are being taught in the current semester, to the same level, as Elective — III under engineering faculty or individual college and Industry can define new elective with proper syllabus using defined framework of Elective III and GET IT APPROVED FROM BOARD OF STUDIES AND OTHER NECESSARY STATUTORY SYSTEMS IN THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE, BEFORE 30th NOVEMBER. Without approval from University statutory system, no one can introduce the open elective in curriculum.

DTE:6324 SPPU:4071 Dhangawadi Pune 412206