

Syllabus

Savitribai Phule Pune University

Faculty of Engineering

Fourth Year Production Engineering

(Course 2015)

(with effect from June 2018)

Savitribai Phule Pune University, Pune
Syllabus for Fourth Year Production Engineering
(2015 Course)

(With effect from Academic Year 2018-19)

Semester- I

Course Code	Course	Teaching Scheme (Hrs/week)			Examination Scheme						Credit	
		Theory	Practical	Tutorial	Paper		TW	OR	PR	Total	TH/TW/TUT	PR/OR
					In-Sem	End-Sem						
411081	Machine Tool Design	3			30	70				100	3	
411082	Automation & Control Engineering	3			30	70				100	3	
411083	Operations Research	4			30	70				100	4	
411084	Elective I	3			30	70				100	3	
411085	Elective II	3			30	70				100	3	
411086	Machine Tool Design Lab		2					50		50		1
411087	Automation & Control Engineering Lab		2						50	50		1
411088	Operations Research Lab		2				50			50	1	
411089	Elective I Lab		2				50			50	1	
411090	Project Phase-I		2				50			50	1	1
											19	3
Total		16	10	0	150	350	150	50	50	750	22	

Elective I

- (a) Product Design & Development
- (b) Financial Management and Costing
- (c) Data Analytics
- (d) Advanced Thermal Engineering
- (e) Mechatronics

Elective II

- (a) Nano Manufacturing
- (b) Simulation & Modeling
- (c) Additive Manufacturing
- (d) Reliability Engineering
- (e) Advanced Materials

Abbreviations:

TW: Term Work, TH: Theory, OR: Oral, TUT: Tutorial, PR: Practical

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Semester- II

Course Code	Course	Teaching Scheme (Hrs/week)			Examination Scheme						Credit	
		Theory	Practical	Tutorial	Paper		TW	OR	PR	Total	TH/TW/ TUT	PR/OR
					In-Sem	End-Sem						
411091	Computer Integrated Design & Manufacturing	3			30	70				100	3	
411092	Industrial Robotics	3			30	70				100	3	
411093	Elective III	3			30	70				100	3	
411094	Elective IV	3			30	70				100	3	
411095	Computer Integrated Design & Manufacturing Lab		2						50	50		1
411096	Industrial Robotics Lab		2					50		50		1
411097	Elective III Lab		2				50			50	1	
411098	Elective IV Lab		2				50			50	1	
411099	Project Work			6			50	100		50	1	5
											15	7
Total		12	8	6	120	280	150	150	50	750	22	

Elective III

- (a) Sustainability Engineering
- (b) Supply Chain Management
- (c) Automobile Engineering
- (d) Entrepreneurship
- (e) Human Resource & Management

Elective IV

- (a) Intelligent Manufacturing System
- (b) Energy Management
- (c) World Class Manufacturing
- (d) Finite Element Analysis
- (e) Environmental Engineering

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