Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
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Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute,ISO 9001:2015 Certified Institute.
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.:- Date:-

1.2.1 List of programs in which Choice Based Credit System (CBCS)/elective course system has been implemented

Programme Name : Mechanical Engineering			
Programme Code: 1-1408968339			
Sr. No.	**Class Name**	**Status of implementation of CBCS / elective course system (Yes/No)**	**Year of implementation of CBCS / elective course system**
1.	T.E. Mechanical Engineering	Yes (Elective)	2014-15
2.	B.E. Mechanical Engineering	Yes (Elective)	2015-16

COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering
PANDHARPUR

SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF ENGINEERING & TECHNOLOGY

Mechanical Engineering

Structure of T.E. (Mechanical Engineering) w.e.f. from2014-15

Semester-I

Sr.No.	Subject	Teaching / Week					Examination Scheme				
		L	T	P	Dr	Total	TP	TW	OE	POE	Total
1	Theory of Machine –II	3		2		5	100	25	25		150
2	Heat and Mass Transfer	3		2		5	100	25		25	150
3	Metallurgy	3		2		5	100	25	25		150
4	Machine Design – I	3		2		5	100	25			125
5	Professional Elective - I	3		2		5	100	25			125
6	Advanced Computer Programming-I	1		2		3		25			25
7	Workshop Practice – IV			2		2		25			25
8	Self Learning (HSS)						50				50
Total		**16**		**14**		**30**	**550**	**175**	**50**	**25**	**800**

Professional Elective I	Machine Tool Design	Fluid Machinery and Fluid Power	Material Handling Systems

Semester-II

Sr.No.	Subject	Teaching / Week					Examination Scheme				
		L	T	P	Dr	Total	TP	TW	OE	POE	Total
1	Metrology and Mechanical Measurements	3		2		5	100	25			125
2	Internal Combustion Engine	3		2		5	100	25			125
3	CAD/CAM	3		2		5	100	25			125
4	Machine Design – II	3		2		5	100*	25	25		150
5	Professional Elective –II	3		2		5	100	25			125
6	Advanced Computing Techniques-II	1		2		3		25			25
7	Workshop Practice- V			2		2		25		#50	75
8	Self Learning (Technical)							50			50
Total		**16**		**14**		**30**	**500**	**225**	**25**	**50**	**800**

'#' indicates practical examination only

'*' indicates Open Book theory Examination

Professional Elective II	1)Experimental Stress Analysis	2)Power Plant and Energy Engineering	3)Tool Engineering	4) Mecanical Vibration

Note –

- The Practical batch shall be of 15 students. After formation of batches, if the number of students remaining is more than 7 a new batch shall be formed.
- Syllabus of Self learning (H.S.S.) is common for all Under Graduate Programs under Faculty of Engineering and Technology.
- Practical / Tutorial load indicates the load per batch.
- TW: Term work assessment shall be a continuous process based on the performance of student in assignment, class test, quizzes, homework, interaction during theory and laboratory session, hand written lab book/ hand written journal, sheet drawing, subject seminar presentation etc. as applicable.
- Industrial Training (B.E. Part 1) of minimum 30 days in one/two slot shall be completed in any vacation after SE Part-II but before BE Part-I & the report shall be submitted in BE Part-I.
- Electives -: To offer a particular subject as an Elective, minimum 15 students shall opt for the same. Appropriate Electives Subjects may be added when required.
- For the subject Advanced Computing Techniques-I and Advanced Computing Techniques-II any one subject given with syllabus is to be selected by the student.

SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF ENGINEERING & TECHNOLOGY

Mechanical Engineering

Structure of B.E. (Mechanical Engineering) w.e.f. from2015-16

Semester-I

Sr. No.	Subject	Teaching / Week					Examination Scheme				
		L	T	P	Dr	Total	TP	TW	OE	POE	Total
1	Automatic Control Engineering	3		2		5	100	25			150
2	Operations Research	3		2		5	100	25			125
3	Refrigeration and Air Conditioning	3		2		5	100	25	25		125
4	Professional Elective - 3	3		2		5	100	25	25		150
5	Free Elective - I	3	2			5	100	25			125
6	Industrial Training			1		1		50	25		75
7	Project Work– I			4		4		50			50
Total		**15**	2	13		**30**	**500**	**225**	**75**	-	**800**

Professional Elective III	Finite Element Methods	Automobile Engineering	Process Engineering

Free Elective I	Industrial Robotics	Sugar Engineering	Textile Engineering	Entrepreneurship Development

Semester-II

Sr.No.	Subject	Teaching / Week					Examination Scheme				
		L	T	P	Dr	Total	TP	TW	OE	POE	Total
1	Industrial and Quality Management	3		2		5	100	25			125
2	Industrial Engineering	3		2		5	100	25			125
3	Professional Elective - 4	3		2		5	100	25	25		150
4	Free Elective - II	3	2			5	100	25	25		150
5	Project Work – II			8		8		100	100		200
6	General Proficiency	2				2		50			50
Total		**14**	2	14		**30**	**400**	**250**	**150**	-	**800**

Professional Elective IV	Mechatronics	Computational Fluid Dynamics	Production and Operation Management

Free Elective II	Software Engineering & cyber security	Agro Machine Engineering	Plastic Engineering	Economics for Engineers

w.e.f. academic year 2015-16

Note –

1. The Practical batch shall be of 15 students. After formation of batches, if the number of students remaining is more than 7 a new batch shall be formed.
2. Project group shall not be of more than four students.
3. Practical / Tutorial load indicates the load per batch.
4. TW: Term work assessment shall be a continuous process based on the performance of student in assignment, class test, quizzes, homework, interaction during theory and laboratory session, hand written lab book/ hand written journal, sheet drawing, subject seminar presentation etc. as applicable.
5. For Elective -: To offer a particular subject as an Elective, minimum 15 students should opt for the same. Appropriate Electives Subjects may be added when required.