



Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

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**Criterion 1 – Curricular Aspects**

**Key Indicator – 1.3 Curriculum Enrichment**

**1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human values and Professional Ethics into the curriculum.**

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Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil College of Engineering, Satara**

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**Criterion 1 – Curricular Aspects**

**Key Indicator – 1.3 Curriculum Enrichment**

**List of courses addressing cross cutting issues relevant to Gender, Environment and Sustainability, Human values and Professional Ethics into the curriculum.**

Sr.No.	Core Courses related to	Class	Name of the course
1.	<b>Gender</b>	F.E.	Professional Communication –I
2.		F.E.	Professional Communication –II
3.		B.E. Computer	Community Services
4.		S.E. Computer	Soft Skills
5.	<b>Environment and Sustainability</b>	F.Y. ( Common)	Energy and Environmental Engineering
6.		S.E ( Common)	Environmental Studies
7.		T.E. ( Civil)	Environmental Engineering- I
8.		T.E. ( Civil)	Environmental Engineering- II
9.		B.E. Computer	Community Services
10.		B.E. Production	Composite materials & Technology
11.		B.E. Production	Material Handling system
12.		B.E. Production	Advanced Industrial Engineering
13.		B.E. Production	Energy Engineering
14.		B.E. Production	Environmental & Pollution Control
15.		T.E. Production	Machine Tool Design
16.		T.E. Production	Machine Tools and Product Design
17.		T.E. Mechanical	Internal Combustion Engine
18.		B.E. Mechanical	Advanced Internal Combustion Engine
19.		B.E. Mechanical	Energy And Power Engineering
20.		B.E. Mechanical	Noise & Vibration
21.		T.E. Mechanical	Renewable Energy
22.		B.E. Mechanical	Refrigeration & Air Conditioning
23.		B.E. Mechanical	Advanced Refrigeration



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Sr.No.	Core Courses related to	Class	Name of the course
24.	<b>Human Values</b>	T.E. Civil	Engineering Management I
25.		B.E. Civil	Engineering Management II
26.		BE(CSE)	Community Services
27.		S.E. Computer	Soft Skills
28.		T.E. Computer	Business English
29.		T.E. Production	Industrial Management
30.		B.E. Production	Production & Operations Management
31.		B.E. Mechanical	Human Values and Professional Ethics
32.		S.Y. B. Tech	Basic Human Rights
33.		<b>Professional Ethics</b>	SE(CSE)
34.	TE(CSE)		Business English
35.	T.E. Electronics		Mini Project
36.	B.E. Electronics		Mega Project
37.	T.E. Production		Industrial Management
38.	T.E. Production		Seminar
39.	B.E. Production		Marketing Management
40.	B.E. Production		Entrepreneurship Development
41.	B.E. Production		Industrial Training
42.	T.E. Mechanical		Industrial Management And Operation Research
43.	T.E. Mechanical		Professional Skill
44.	S.Y. B. Tech		Interpersonal skill
45.	T.E. Mechanical/ S.Y. B. Tech		Vacational Training
46.	T.E. Mechanical		Seminar
47.	B.E. Mechanical (Elective –I)		Industrial Product Design
48.	B.E. Mechanical (Elective –I)		Reliability Engineering



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**First Year Engineering Course Common to All Branches**

**Semester I: Physics Group**

Sr. No.	Subject	Teaching / Week (Hours/Week)				Examination Scheme (Marks)		
		L	P	T	Total	Theory	Term Work	Total
1.	Engineering Physics	03	02	-	05	100	25	125
2.	Engineering Mathematics-I	03	-	01	04	100	25	125
3.	Basic Electrical Engineering	03	02	-	05	100	25	125
4.	Basic Civil Engineering	03	02	-	05	100	25	125
5.	Engineering Graphics#	03	02	-	05	100#	25	125
6.	Professional Communication-I	01	02	-	03	-	25	25
7.	Workshop Practice-I	01	02	-	03	-	50	50
	<b>Total</b>	<b>17</b>	<b>12</b>	<b>01</b>	<b>30</b>	<b>500</b>	<b>200</b>	<b>700</b>

#Theory paper of 4 hours duration

**First Year Engineering Course Common to All Branches**

**Semester I: Chemistry Group**

Sr. No.	Subject	Teaching / Week (Hours/Week)				Examination Scheme (Marks)		
		L	P	T	Total	Theory	Term Work	Total
1.	Engineering Chemistry	03	02	-	05	100	25	125
2.	Engineering Mathematics-I	03	-	01	04	100	25	125
3.	Fundamentals of Electronics and Computer S	03	02	-	05	100	25	125
4.	Applied Mechanics	03	02	-	05	100	25	125
5.	Basic Mechanical Engineering	03	02	-	05	100	25	125
6.	Professional Communication-I	01	02	-	03	-	25	25
7.	Workshop Practice-II	01	02	-	03	-	50	50
	<b>Total</b>	<b>17</b>	<b>12</b>	<b>01</b>	<b>30</b>	<b>500</b>	<b>200</b>	<b>700</b>



Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

Shivaji University, Kolhapur

SYLLIBUS/ STRUCTURE (REVISED from June- 2009)

T.E. Civil (Semester – V)

Sr. No.	Subject	Teaching Scheme per Week					Examination Scheme (Marks)				
		L	P	T	D	Total	Theory Paper	TW	POE	OE	Total
1	Design of Steel Structures	4	2	-	-	6	100	25	-	-	125
2	Geotechnical Engineering-I	3	2	-	-	5	100	25	50	-	175
3	Water Resources Engineering-I	3	2	-	-	5	100	25	-	-	125
4	Concrete Technology	3	2	-	-	5	100	25	-	-	125
5	Environmental Engineering-I	3	2	-	-	5	100	25	50	-	175
6	Building Planning & Design	2	-	-	4	6	-	50	-	25	75
	<b>Total</b>	<b>18</b>	<b>10</b>	<b>-</b>	<b>4</b>	<b>32</b>	<b>500</b>	<b>175</b>	<b>100</b>	<b>25</b>	<b>800</b>

T.E. Civil (Semester – VI)

Sr. No.	Subject	Teaching Scheme per Week					Examination Scheme (Marks)				
		L	P	T	D	Total	Theory Paper	TW	POE	OE	Total
1	Structural Mechanics - III	3	2	-	-	5	100	25	-	-	125
2	Geotechnical Engineering-II	3	2	-	-	5	100	25	-	-	125
3	Engineering Management	4	2	-	-	6	100	25	-	25	150
4	Water Resources Engineering-II	3	2	-	-	5	100	25	-	25	150
5	Environmental Engineering-II	3	2	-	-	5	100	25	-	-	125
6	Structural Design & Drawing - I	-	-	-	4	4	-	50	-	25	75
7	Seminar	-	2	-	-	2	-	50	-	-	50
	<b>Total</b>	<b>16</b>	<b>12</b>	<b>-</b>	<b>4</b>	<b>32</b>	<b>500</b>	<b>225</b>		<b>75</b>	<b>800</b>



**Rayat Shikshan Sanstha's**  
**Karmaveer Bhaurao Patil College of Engineering, Satara**

**Shivaji University, Kolhapur.**  
**STRUCTURE & SYLLABUS FOR B. E. (PRODUCTION ENGINEERING) PROGRAM**

**Class: S. E. (PRODUCTION ENGINEERING) SEMESTER-III**  
**(TO BE REVISED FROM JULY 2014)**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Machine Tools and Processes	3	1	-	4	3	100	25	-	25	150
2	Engineering Mathematics – III	3	-	1*	4	3	100	25	-	-	125
3	Machine Drawing	2	4	-	6	4	100	25	-	25	150
4	Thermal Engineering	3	2	-	5	3	100	25	-	-	125
5	Electrical and Electronics Engineering	3	2	-	5	3	100	25	-	-	125
6	Object Oriented Programming with C++	2	2	-	4	-	-	25	50	-	75
7	Workshop Practice-III	-	2	-	2	-	-	50	-	-	50
	Total	16	13	1	30	-	500	200	50	50	<b>800</b>

L: Lecture, Pr: Practical, Tut: Tutorial, TW: Term Work, \* Tutorials shall be conducted batch-wise.

**Class: S. E. (PRODUCTION ENGINEERING) SEMESTER-IV**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Foundry Technology	3	2	-	5	3	100	25	-	-	125
2	Advanced Machine Tools and Processes	3	1	-	4	3	100	25	-	-	125
3	Theory of Machines-I	3	2	-	5	4	100	25	-	-	125
4	Analysis of Machine Elements	3	2	-	5	3	100	25	-	25	150
5	Welding Technology	3	2	-	5	3	100	25	-	-	125
6	Computer Aided Solid Modelling	1	2	-	3	-	-	25	25	-	50
7	WS Practice-IV	-	2	-	2	-	-	25	25	-	50
8	Mini Project*	-	1	-	1	-	-	50	-	-	50
	Total	16	14	-	30	-	500	225	50	25	<b>800</b>



# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

**Shivaji University, Kolhapur.  
Class: T. E. (PRODUCTION ENGINEERING) SEMESTER-V**

**(TO BE REVISED FROM JULY 2015)**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Metallurgy	3	2	-	5	3	100	25	-	-	125
2	Theory of Machines-II	3	2	-	5	3	100	25	-	-	125
3	Design of Machine Elements	3	2	-	5	3	100	25	-	-	125
4	Metrology	3	2	-	5	3	100	25	25	-	150
5	Metal Forming and Plastic Engineering	3	1	-	4	3	100	25	-	-	125
6	Metal Cutting Theory	3	1	-	4	3	100	25	-	-	125
7	WS Practice -V*	-	2	-	2	-	-	25	-	-	25
<b>Total</b>		<b>18</b>	<b>12</b>	<b>-</b>	<b>30</b>	<b>-</b>	<b>600</b>	<b>175</b>	<b>25</b>	<b>-</b>	<b>800</b>

L: Lecture, Pr: Practical, Tut: Tutorial, TW: Term Work

\*Note: Work load of 2 Hrs. practical per batch to be allotted to the teaching faculty member.

**Class: T. E. (PRODUCTION ENGINEERING) SEMESTER-VI**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Industrial Management	3	1	-	4	3	100	25	-	-	125
2	Industrial Hydraulics and Pneumatics	3	2	-	5	3	100	25	-	25	150
3	Design of Jigs, Fixtures and Dies	4	2	-	6	4	100	25	-	25	150
4	Quality Management	3	2	-	5	3	100	25	-	-	125
5	Machine Tool Design	3	2	-	5	3	100	25	-	-	125
6	CAM Laboratory and CNC Workshop Practice	-	4	-	4	-	-	50	50	-	100
7	Research Seminar #	-	1	-	1	-	-	25	-	-	25
<b>Total</b>		<b>16</b>	<b>14</b>	<b>-</b>	<b>30</b>	<b>-</b>	<b>500</b>	<b>200</b>	<b>50</b>	<b>50</b>	<b>800</b>

L: Lecture, Pr: Practical, Tut: Tutorial, TW: Term Work



# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

**Shivaji University, Kolhapur.  
Class: B. E. (PRODUCTION ENGINEERING) SEMESTER-VII**

**(TO BE REVISED FROM JULY 2016)**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Operations Research	3	2	-	5	3	100	25	-	-	125
2	Mechatronic Systems	3	2	-	5	3	100	25	25	-	150
3	Production and Operations Management	3	2	-	5	3	100	25	-	-	125
4	Process Engineering	4	2	-	6	4	100	25	-	25	150
5	Elective-I	3	2	-	5	3	100	25	-	-	125
6	Industrial Training*	-	-	-	-	-	-	25	-	25	50
7	Project Work * Phase-I	-	2*	-	2*	-	-	75	-	-	75
	Total	16	12	-	28	-	500	225	25	50	<b>800</b>

L: Lecture, Pr: Practical, Tut: Tutorial, TW: Term Work

\*Note: For Industrial Training and Project Work a group of nine students shall be considered for workload purpose.

**Class: B. E. (PRODUCTION ENGINEERING) SEMESTER-VIII**

Sr. No.	Subject	Teaching Scheme Hours/week				Theory Paper Duration Hours	Examination Scheme Marks				Total Marks
		L	Pr	Tut	Total		Theory	TW	Pr	Oral	
1	Costing and Cost Control	3	2	-	5	3	100	25	-	-	125
2	Industrial Engineering	3	2	-	5	3	100	25	-	25	150
3	Finite Element Analysis	4	2	-	6	3	100	25	25	-	150
4	Elective-II	3	2	-	5	3	100	25	-	-	125
5	Elective-III	3	2	-	5	3	100	25	-	-	125
6	Project Work Phase-II #	-	4#	-	4#	-	-	75	-	50	125
	Total	16	14		30	-	500	200	25	75	<b>800</b>

L: Lecture, Pr: Practical, Tut: Tutorial, TW: Term Work





Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

Shivaji University, Kolhapur

Revised Structure & Syllabus of S.E., T.E. & B.E. (Electronics Engg) course w.e.f. July 2014-15

Syllabus Structure

Class:- TE(Electronics)-I

SEM-V

Sr. No.	Subject	Teaching Scheme (Hrs)				Examination Scheme (Marks)				
		L	T	P	Total	Theory	TW	POE	OE	Total
1.	Signal & Systems	4	1	0	5	100	25	-	-	125
2.	Microcontroller	4	0	2	6	100	25	50	-	175
3.	Electromagnetic Engineering	3	1	0	4	100	25	-	-	125
4.	VLSI Design	4	0	2	6	100	25	50	-	175
5.	Digital Communication	4	0	2	6	100	25	-	-	125
6.	Programming Lab-II	1	0	2	3	-	25	-	50	75
		20	2	8	30	500	150	100	50	800

Programming Lab-II should contain minimum four practicals based Signal & Systems and Electromagnetic Engineering topics.

Class:- TE(Electronics)-II

SEM-VI

Sr. No.	Subject	Teaching Scheme (Hrs)				Examination Scheme (Marks)				
		L	T	P	Total	Theory	TW	POE	OE	Total
1.	Digital Signal Processing	4	0	2	6	100	25	-	-	125
2.	Video Engg.	3	0	2	5	100	25	50	-	175
3.	Power Electronics	4	0	2	6	100	25	50	-	175
4.	Computer Architecture & Operating system	4	0	2	6	100	25	-	-	125
5.	Electronic System Design	4	1	0	5	100	25	-	-	125
6.	Mini Project	0	0	2	2	-	25		50	75
		19	1	10	30	500	150	100	50	800



# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

SHIVAJI UNIVERSITY, KOLHAPUR,

Structure of T.E. (MECHANICAL ENGINEERING) Semester V

WITH EFFECT FROM THE ACADEMIC YEAR JUNE/JULY 2015-2016

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Control Engineering	3	-	2	5	100	25	-	-	125
2	Theory of Machine - II	3	-	2	5	100	25	25	-	150
3	Heat and Mass Transfer	3	-	2	5	100	25	-	25	150
4	Machine Design - I	3	1	-	4	100	25	-	-	125
5	Manufacturing Engineering @	3	-	2	5	100	25	-	-	125
6	CAD/CAM Laboratory	-	-	2	2	-	25	-	25	50
7	Professional Skill Development	1	-	-	1	-	25	-	-	25
8	Workshop Practice - V	-	-	2	2	-	25	-	-	25
9	Mini-Project- I	-	-	1	1	-	25	-	-	25
<b>Total</b>		16	01	13	30	500	225	25	50	800

L: Lecture, T: Tutorial, P: Practical, TP: Theory Paper, TW: Term Work, OE: Oral Exam. , POE: Practical and Oral Exam.

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Industrial Management and Operation Research	3	1	-	4	100	25	-	-	125
2	Industrial Fluid Power	3	-	2	5	100	25	-	-	125
3	Metrology and Quality Control	3	-	2	5	100	25	25	-	150
4	Machine Design - II	3	1	-	4	100	25	25	-	150
5	Internal Combustion Engines	3	-	2	5	100	25	-	25	150
6	Computer Integrated Manufacturing Lab	-	-	2	2	-	25	-	-	25
7	Seminar	-	-	2	2	-	25	-	-	25
8	Workshop Practice -VI	-	-	2	2	-	25	-	-	25
9	Mini-Project- II	-	-	1	1	-	25	-	-	25
<b>Total</b>		15	02	13	30	500	225	50	25	800

L: Lecture, T: Tutorial, P: Practical, TP: Theory Paper, TW: Term Work, OE: Oral Exam. , POE: Practical and Oral Exam.



**Rayat Shikshan Sanstha's**  
**Karmaveer Bhaurao Patil College of Engineering, Satara**

**SHIVAJI UNIVERSITY, KOLHAPUR,**

**Structure of B.E. (MECHANICAL ENGINEERING) Semester VIII**

**WITH EFFECT FROM THE ACADEMIC YEAR JUNE/JULY 2016-2017**

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Mechatronics	3	-	2	5	100	25	25	-	150
2	Energy and Power Engineering	3	-	2	5	100	25	-	-	125
3	Noise and Vibration	3	-	2	5	100	25	25	-	150
4	Elective III	3	-	2	5	100	25	-	-	125
5	Elective IV	3	-	2	5	100	25	-	-	125
6	Project Phase -II	-	-	4	4	-	50	75	-	125
<b>Total</b>		15	00	14	29	500	175	125	00	800

**SHIVAJI UNIVERSITY, KOLHAPUR,**

**Structure of B.E. (MECHANICAL ENGINEERING) Semester VII**

**WITH EFFECT FROM THE ACADEMIC YEAR JUNE/JULY 2016-2017**

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Refrigeration and Air Conditioning	3	-	2	5	100	25	-	25	150
2	Mechanical System Design	3	-	2	5	100	25	25	-	150
3	Finite Element Analysis	3	-	2	5	100	25	-	-	125
4	Elective I	3	-	2	5	100	25	-	-	125
5	Elective II	3	-	2	5	100	25	-	-	125
6	Industrial Training @	-	-	-	0	-	50	-	-	50
7	Project Phase -I	-	-	2	2	-	50	25	-	75
<b>Total</b>		15	00	12	27	500	225	50	25	800



# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

## Dr. Babasaheb Ambedkar Technological Engineering

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

### Group A

Semester I										
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit	
		L	T	P	CA	MSE	ESE	Total		
Mandatory	<b>Induction Program</b>	<b>3-weeks duration in the beginning of semester.</b>								
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4	
BTBS102	Engineering Physics	3	1	-	20	20	60	100	4	
BTES103	Engineering Graphics	2	-	-	20	20	60	100	2	
BTHM104	Communication Skills	2	-	-	20	20	60	100	2	
BTES105	Energy and Environment Engineering	2	-	-	20	20	60	100	2	
BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit	
BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	100	1	
BTES108L	Engineering Graphics Lab	-	-	4	60	-	40	100	2	
BTHM109L	Communication Skills Lab.	-	-	2	60	-	40	100	1	
		<b>14</b>	<b>2</b>	<b>8</b>	<b>330</b>	<b>100</b>	<b>420</b>	<b>850</b>	<b>18</b>	
Semester II										
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4	
BTBS202	Engineering Chemistry	3	1	-	20	20	60	100	4	
BTES203	Engineering Mechanics	2	1	-	20	20	60	100	3	
BTES204	Computer Programming in C	2	-	-	20	20	60	100	2	
BTES205	Workshop Practices	-	-	4	60	-	40	100	2	
BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit	
BTES207L	Computer Programming Lab	-	-	2	60	-	40	100	1	
BTBS208L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1	
BTES209L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1	
BTES210P	Mini Project	-	-	2	60	-	40	100	1	
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	-	-	-	-	-	-	-	Credits To be evaluate d in III Sem.	
		<b>12</b>	<b>3</b>	<b>12</b>	<b>430</b>	<b>80</b>	<b>440</b>	<b>950</b>	<b>19</b>	
		<b>27</b>								



**Rayat Shikshan Sanstha's**  
**Karmaveer Bhaurao Patil College of Engineering, Satara**

**B. Tech. Mechanical Engineering**  
**Course Structure for Semester III [Second Year] w.e.f. 2018-2019**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTBSC301	BSC 7	Engineering Mathematics-III	3	1	--	20	20	60	100	4
BTMEC302	ESC 11	Materials Science and Metallurgy	3	1	--	20	20	60	100	4
BTMEC303	PCC 1	Fluid Mechanics	3	1	--	20	20	60	100	4
BTMEC304	PCC 2	Machine Drawing and CAD	2	--	--	20	20	60	100	2
BTMEC305	ESC 12	Thermodynamics	3	1	--	20	20	60	100	4
BTHM3401	HSMC 3	Basic Human Rights	2	--	--	50	--	--	50	Audit (AU/ NP)
BTMEL307	ESC 13	Materials Science and Metallurgy Lab	--	--	2	60	--	40	100	1
BTMEL308	PCC 3	Fluid Mechanics Lab	--	--	2	60	--	40	100	1
BTMEL309	PCC 4	Machine Drawing and CAD Lab	--	--	4	60	--	40	100	2
BTMEF310	Project 1	Field Training /Internship/Industrial Training I	--	--	--	--	--	50	50	1
<b>Total</b>			<b>16</b>	<b>4</b>	<b>8</b>	<b>330</b>	<b>100</b>	<b>470</b>	<b>900</b>	<b>23</b>



# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

## B. Tech. Mechanical Engineering

Course Structure for Semester IV [Second Year] w.e.f. 2018-2019

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTMEC401	PCC 5	Manufacturing Processes - I	2	1	--	20	20	60	100	3
BTMEC402	PCC 6	Theory of Machines-I	3	1	--	20	20	60	100	4
BTMEC403	PCC 7	Strength of Materials	3	1	--	20	20	60	100	4
BTMEC404	BSC 8	Numerical Methods in Mechanical Engineering	2	1	--	20	20	60	100	3
BTID405	PCC 8	Product Design Engineering	2	--	--	20	20	60	100	2
BTBSE406A	OEC 1	Physics of Engineering Materials	3	--	--	20	20	60	100	3
BTBSE3405A		Advanced Engineering Chemistry								
BTHM3402		Interpersonal Communication Skill & Self Development								
BTMEL407	PCC 9	Manufacturing Processes Lab - I	--	--	2	60	--	40	100	1
BTMEL408	PCC 10	Theory of Machines Lab- I	--	--	2	60	--	40	100	1
BTMEL409	PCC 11	Strength of Materials Lab	--	--	2	60	--	40	100	1
BTMEL410	BSC 9	Numerical Methods Lab	--	--	2	60	--	40	100	1
Total			15	4	8	360	120	520	1000	23
Minimum 4 weeks training which can be completed partially in third and fourth semester or in at one time.										




Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

List of Activities:

1) Computer Literacy

स्थापना-१०/११/१९४९ चालू सेवा शीघ्र रेंजिंग सेवा संचालन सं.११०११/११०११

 **डिस्ट्रिक्ट प्रोबेशन अॅण्ड आफ्टर केअर असोसिएशन, सातारा.**  
मुला-मुलींचे निरिक्षण गृह/बालगृह(रिमांड होम) सातारा.  
रजि.पब्लिक ट्रस्ट अॅक्ट सन १९५० खाली नं.३-७ सातारा.  
(आयकरांत सुट नं.पी.एल/सी.आय.टी.-३/टेक/८०जी/२५१/२०११-१२/१२९६ दि.२०-०९-२०११ जन्मवे दि.०१-०४-२०११ पासूनकायमस्वरूपी)  
प्रौढाणी प्रमाणपत्र नं.४७०-म.बा.वि.आ/नों.प्र./१०-११/२५९८ दि.८/४/२०१० मा.आयुक्त महिला व बाल विकास,महाराष्ट्र राज्य पुणे १.

जा.श. वि.सं.सा. /सप्तमहा २०१८/९८ दि. २१/४/२०१८

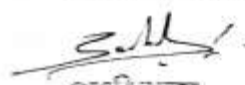
प्रति,  
मा. प्राचार्य,  
डॉ. कर्मवीर भाऊराव पाटील,  
अभियांत्रिकी महाविद्यालय,  
सदर बझार, सातारा.

सांना  
स.न.वि.वि.

महोदय,

आपल्या महाविद्यालयातील बी.ई. कम्प्युटर विभागातील विद्यार्थ्यांनी आगच्या संस्थेतील मुला/मुलींना संगणकाचे प्रात्याक्षीक संगणकाद्वारे विद्यार्थ्यांना शिकविले. सर्व मुलां-मुलींनी त्याचे अवलोकन केले. या प्रसंगी सर्व मुलां/मुलींना खाऊ बिस्कीट, चॉकलेट वाटप करण्यात आले. आपल्या महाविद्यालयातील विद्यार्थ्यांचे सतत या संस्थेस सहकार्य असतेच, येथुन पुढे ही अरांच सहकार्य मिळावे. हीच अपेक्षा.

धन्यवाद.

आपला विश्वासू  
  
अधीक्षक  
निरिक्षण गृह,सातारा  
सा. व. वि. सातारा

2) E-Learning activity at various public schools.

At Takshashila and Jijamata School Satara







# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

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## Facilitating E-Learning at Remand Home Satara:





Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

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3) Tree Plantation and Conservation:





# Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

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## 4) Cleanliness:



**5) Save Girl Child: Counselling of Pregnant women at Civil Hospital**



**Name of the Department – Production Engineering Department**

**Name of the Activity – Blood Donation Camp**

**Date of Conduction – 19<sup>th</sup> January 2018**

Blood Donation is an important and foremost sense of duty of every human being which saves the life of many humans who needs it in urgent situation. Production Engineering Students Association arranged blood donation camp in collaboration with Balaji blood bank of Satara on 19<sup>th</sup> January 2018. The camp began at 10.00 a.m. with a short inaugural function where in Dr. Sangale S.M. (Principal), Faculty members, staff members & students. Dr. Sangale S.M. expressed his gratitude to the PESA members for its continuous endeavor in this regard. Maheshkumar Bhosale Chairman Balaji Blood Bank supported throughout the camp take place in college with reference to our respected Principal Dr. Sangale S.M. to promote and encourage to all students for Blood Donation. **170** volunteers came forward to donate blood during the camp which included teaching & non-teaching staff, students & non-student donors. At the end **152** units of Blood was collected. The blood donors were given Tea, Biscuits, banana after donating the blood in order to reenergize themselves. The blood donors were provided with a blood donation certificate card by Balaji Blood Bank. The Balaji Blood Bank team was provided with lunch and the camp concluded at around 4:30 p.m.



Inauguration of Blood Donation Camp by Ribbon Cutting Ceremony by Principal Dr. Sangale S.M. in presence of Faculty Members & Students.

Prin.Dr. Sangale S.M, Faculty members, Voulnteers & Mr. Maheshkumar Bhosale Chairman Balaji Blood Bank.



## Students Donating the Blood.



Mr. Maheshkumar Bhosale Chairman of Balaji Blood Bank & Team thanked our principal teachers & students for their co-operation. Everyone appreciated our college for being a part of a noble cause.



# BALAJI BLOOD BANK, SATARA

C.S. No. 467/8A, 1B/45, Jaldhara Building, Opp. Dena Bank, Sadarbazar,  
Satara-415 002. Ph.: (02162) 226995 / 96 Mob. 9860022646  
LIC No. PD/76 Email - balajibbsatara@gmail.com

## Certificate of Honour

*This Certificate has been awarded to*

**PRODUCTION ENGINEERING STUDENTS ASSOCIATION  
K.B.P. COLLEGE OF ENGINEERING, SATARA.**

*For Organising a voluntary Blood Donation Camp*

*to this blood bank on .....19 January 2018..... This Impressive*

*Contribution to the noble cause is highly appreciated*



Donate Blood  
Save Life

  
BALAJI BLOOD BANK  
C.S. No. 467/8A, 1B/45  
Jaldhara Building, Opp. Dena Bank,  
Satara-415 002



Donate Blood  
Save Life

## **Name of the Department – Production Engineering Department**

## **Name of the Activity – Blood Donation Camp**

## **Date of Conduction – 23<sup>rd</sup> January 2016**

As part of its continuous endeavor to serve society, Production Engineering Students Association arranged blood donation camp in collaboration with Balaji blood bank of Satara on 23<sup>rd</sup> January 2016. The camp began at 10.00 a.m. with a short inaugural function where in Dr. Vikram Patil (Principal), Faculty members, staff members & students. Dr. Vikram Patil expressed his gratitude to the PESA members for its continuous endeavor in this regard. He also stressed on the growing need of blood in the state and commended the young volunteers for their noble act. **180** volunteers came forward to donate blood during the camp which included teaching & non-teaching staff, students & non-student donors. At the end **172** units of Blood was collected. The blood donors were given Tea, Biscuits, banana after donating the blood in order to reenergize themselves. The blood donors were provided with a blood donation certificate card by Balaji Blood Bank. The Balaji Blood Bank team was provided with lunch and the camp concluded at around 4:30 p.m.



Inauguration of Blood Donation Camp by Ribbon Cutting Ceremony by Principal Dr. Vikram S. Patil in presence of Faculty Members & Students.

Mr. Maheshkumar Bhosale Chairman Balaji Blood Bank giving the Token to Principal Dr. Vikram S. Patil







Principal Dr. Vikram S. Patil having Interaction with the PESA president Amar Gadkari about the camp.

Principal Dr. Vikram S. Patil taking the information of number of donors donated the blood.



Students Donating the Blood.

Mr. Maheshkumar Bhosale Chairman of Balaji Blood Bank & Team thanked our principal teachers & students for their co-operation. Everyone appreciated our college for being a part of a noble cause.



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*to this blood bank on ..... 23 January 2016 ..... This Impressive*

*Contribution to the noble cause is highly appreciated*



Donate Blood  
Save Life

*[Signature]*  
BALAJI BLOOD BANK  
C.S. No. 467/8A, 1B/45  
Jaldhara Building, Opp. Dena Bank  
Sadar Bazar, Satara-415 002



Donate Blood  
Save Life