

Course Structure for S.E. (Electronics/Electronics & Telecommunication Engineering)

2012 Course (w.e.f. June-2013)

SEMESTER-I										
Subject Code	Subject	Teaching Scheme Hrs/Week			Examination Scheme					Marks
		Lect	Tut	Pr	Theory Online	Tw	Pr	Or	Theory Paper	Total
204181	Signals & Systems	4	1	-	50	25	-	-	50	125
204182	Electronic Devices & Circuits	4	-	2	50	-	50	-	50	150
204183	Network Theory	3	1	-	50	25	-	-	50	125
204184	Data structures & Algorithms	4	-	2	50	-	-	50	50	150
204185	Digital Electronics	4	-	2	50	-	50	-	50	150
204186	Electronic Measuring Instruments & Tools	1	-	2	-	50	-	-	-	50
<b>Total</b>		20	2	8	250	100	100	50	250	750
SEMESTER-II										
Subject Code	Subject	Teaching Scheme Hrs/Week			Examination Scheme					Marks
		Lect	Tut	Pr	Theory Online	Tw	Pr	Or	Theory Paper	Total
207005	Engineering Maths-III	4	1	-	50	25	-	-	50	125
204187	Integrated Circuits	3	-	2	50	-	50	-	50	150
204188	Control Systems	3	1	-	50	25	-	-	50	125
204189	Analog Communication	4	-	2	50	-	50	-	50	150
204190	Computer Organization	3	-	-	50	-	-	-	50	100
204191	Object Oriented Programming	2	-	2	-	25	-	50	-	75
204192	Soft Skills	1	-	2	-	25	-	-	-	25
<b>Total</b>		20	2	8	250	100	100	50	250	750

Dr. D S Bormane  
Chairman, BOS(Electronics)  
University of Pune, Pune

*Principal*  
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Sir Visvesvaraya Institute of Technology,  
Chindoli, Nasik-422102

## TE (E & TC) Structure

2012 Course w.e.f. June 2014

### SEMESTER I

Subject Code	Subject	Teaching Scheme			Examination Scheme					Marks
		Lect	Tut	Pr	Pr	Oral	TW	In Semester Assessment	End Semester Examination	Total
								Phase I	Phase II	
304181	Digital Communication	4						30	70	100
304182	Digital Signal Processing	4						30	70	100
304183	Micro Controller and Applications	3						30	70	100
304184	Electromagnetics and Transmission Lines	3	1					30	70	100
304185	System Programming and Operating System	3						30	70	100
304186	Digital Communication and Signal Processing Lab			4	50		50			100
304187	System Programming and Microcontroller Applications Lab			4	50		50			100
304188	Employability Skills in Electronics Design	2		2		50				50
	<b>Total</b>	<b>19</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>350</b>	<b>750</b>

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## TE (E & TC) Structure

2012 Course w.e.f. June 2014

### SEMESTER II

Subject Code	Subject	Teaching Scheme			Examination Scheme					Marks
		Lect	Tu	Pr	Pr	Oral	TW	In Semester Assessment	End Semester Examination	Total
								Phase I	Phase II	
304189	Information Theory and Coding Techniques	4						30	70	100
304190	Antenna and Wave Propagation	4						30	70	100
304191	Embedded Processors	4						30	70	100
304192	Industrial Management	3						30	70	100
304193	Power Electronics	3						30	70	100
304194	Communication Lab			4	50		50			100
304195	Power Electronics and Embedded Lab			4	50		50			100
304196	Mini project and Seminar			4		50				50
	<b>Total</b>	<b>18</b>		<b>12</b>	<b>100</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>350</b>	<b>750</b>

*(Signature)*

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Chincholi, Nasik-422102

**Dr. D. S. Bormane**  
**BOS Chairman**

## Semester-II

Subject Code	Subject	Teaching Scheme			Examination Scheme					Marks		
		LECT	TUT	PR	PR	OR	TW	End Semester Examination Phase II	Total			
										In Semester Assessment Phase I		
404189	Mobile Communication	4						30			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			100
404194	Lab Practice IV(Elective III)				2				50			100
404195	Project Phase II		6						50		100	150
	<b>Total</b>	<b>14</b>	<b>6</b>	<b>6</b>	<b>6</b>			<b>120</b>	<b>50</b>	<b>50</b>	<b>280</b>	<b>750</b>

### 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\*

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\*Any one subject from the list of Elective IV of computer/IT/Electrical/Instrumentation 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. Bormane  
Chairman, BOS(Electronics)

**Savitribai Phule Pune University, Pune**  
**SE(E&TC/Electronics Engineering) 2015 Course**

(With effect from Academic Year 2016-17)

Semester I												
Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory	Tutorials	Practicals	In-Sem (On line)	End-Sem (Theory)	TW	PR	OR	Total	TII/TUT	PR+OR
204181	Signals & Systems	3	1	-	50	50	25	-	-	125	4	-
204182	Electronic Devices & Circuits	4	-	2	50	50	-	50	-	150	4	1
204183	Electrical Circuits and Machines	3	-	2	50	50	25	-	-	125	3	1
204184	Data Structures and Algorithms	4	-	2	50	50	-	-	50	150	4	1
204185	Digital Electronics	4	-	2	50	50	-	50	-	150	4	1
204186	Electronic Measuring Instruments & Tools	1	-	2	-	-	50	-	-	50	1	1
204192	Audit Course 1	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		19	1	10	250	250	100	100	50	750	20	05
<b>Total Credits</b>											<b>25</b>	

**Abbreviations:**

Th : Theory

TW: Term Work

OR: Oral

TUT: Tutorial

PR : Practical

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Note: Interested students of S.E. (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)



**SE(E&TC/Electronics Engineering) 2015 Course****(With effect from Academic Year 2016-17)**

Semester II												
Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory	Tutorials	Practicals	In-Sem (on line)	End-Sem (Theory)	TW	PR	OR	Total	Til/TUT	PR+OR
207005	Engineering Mathematics III	4	1	-	50	50	25	-	-	125	5	-
204187	Integrated Circuits	4	-	2	50	50	25	50	-	175	4	1
204188	Control Systems	3	-	-	50	50	-	-	-	100	3	-
204189	Analog Communication	3	-	2	50	50	-	50	-	150	3	1
204190	Object Oriented Programming	3	-	4	50	50	-	-	50	150	3	2
204191	Employability Skill Development	2	-	2	-	-	50	-	-	50	2	1
204193	<b>Audit Course 2</b>	-	-	-	-	-	-	-	-	-		
<b>Total</b>		19	1	10	250	250	100	100	50	750	20	05
<b>Total Credits</b>											<b>25</b>	

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**Third Engineering-E&TC (2015 Course)**

(With effect from Academic Year 2017-18)

Semester I												
Course Code	Course	Teaching Scheme			Semester Examination Scheme of						Credits	
		Hours / Week			Marks							
		Theory	Tutorials	Practicals	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR + OR
304181	Digital Communication	4	-	-	30	70	-	-	-	100	4	-
304182	Digital Signal Processing	4	-	-	30	70	-	-	-	100	4	-
304183	Electromagnetics	3	1	-	30	70	-	-	-	100	4	-
304184	Microcontrollers	3	-	-	30	70	-	-	-	100	3	1
304185	Mechatronics	3	-	-	30	70	-	-	-	100	3	1
304191	Signal Processing and Communications Lab (DC/DSP)	-	-	4	-	-	50	50		100	-	2
304192	Microcontrollers and Mechatronics Lab	-	-	4	-	-	50	50		100		
304193	Electronics System Design	2	-	2	-	-	-	-	50	50	2	1
	<b>Audit Course3</b>	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		19	1	10	150	350	100	100	50	750		
<b>Total Credits</b>											<b>25</b>	

Abbreviations:

TH: Theory  
TW: Term WorkOR: Oral  
PR: Practical

Note: Interested students of T.E (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)

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**Third Engineering-E&TC (2015 Course)**

(With effect from Academic Year 2017-18)

Semester II												
Course Code	Course	Teaching Scheme			Semester Examination Scheme					Credit		
		Hours/Week			In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
304186	Power Electronics	4	--	--	30	70	--	--	--	100	4	--
304187	Information Theory, Coding and Communication Networks	4	--	--	30	70	--	--	--	100	4	--
304188	Business Management	3	--	--	30	70	--	--	--	100	3	--
306189	Advanced Processors	4	--	--	30	70	--	--	--	100	4	1
304190	System Programming and Operating Systems	3	--	--	30	70	--	--	--	100	3	1
304194	Power and ITCT Lab	--	--	4	--	--	50	50	--	100	--	2
304195	Advanced Processors and System Programming, Lab	--	--	4	--	--	50	50	--	100	--	--
304196	Employability Skills and Mini Project	2	--	2	--	--	--	--	50	50	2	1
	<b>Audit Course 4</b>	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>		20	--	10	150	350	100	100	50	750		
<b>Total Credits</b>											<b>25</b>	

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TH: Theory  
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