

## APPENDIX - B



Dr. Vishwanath Karad  
**MIT WORLD PEACE**  
**UNIVERSITY** | PUNE  
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

### B. Tech. Electronics and Communication Engineering (Third Year) (Batch 2017-18) Trimester – VII

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	EC311	Digital Signal Processing	PC	4	-	2	2	1	50	50	50	150
2	EC312	Digital Communication	PC	4	-	2	2	1	50	50	50	150
3	EC313	System Programming and RTOS	PC	4	-	2	2	1	50	50	50	150
4	EC314	Computer Networks	PC	4	-	2	2	1	50	50	50	150
5	EC315	Hardware Maintenance & Programming skills for Electronic software	PC	-	-	2		1		50		50
6	WPC2	Study of Languages, Peace in Communication and Human Dynamics		3			2		70		30	100
<b>Total:</b>				<b>19</b>	<b>-</b>	<b>10</b>	<b>10</b>	<b>5</b>	<b>270</b>	<b>250</b>	<b>230</b>	<b>750</b>

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 29 Hours**

\* CCA: Class Continuous Assessment

**Total Credits: Third Year B. Tech ECE Trimester - I: 15**

\* LCA: Laboratory Continuous Assessment

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### B. Tech. Electronics and Communication Engineering (Third Year) (Batch 2017-18) Trimester – VIII\*\*\*

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	PEC1	Professional Elective -I	PE	4	-	2	2	1	50	50	50	150
2	PEC2	Professional Elective -II	PE	4	-	2	2	1	50	50	50	150
3	OEC1	Open Elective-I	OE	4	-	-	2	-	50		50	100
4	OEC2	Open Elective-II	OE	4	-	-	2	-	50		50	100
5	TE1	Mini Project-I	PBL		-	4	-	2	-	100	-	100
<b>Total:</b>				<b>19</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>600</b>

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 27 Hours**

\* CCA: Class Continuous Assessment

**Total Credits: Third Year B. Tech ECE Trimester - II: 12**

\* LCA: Laboratory Continuous Assessment

**\*\*\* Credits for internship will be 12, in lieu of the above subjects (1-5), if the student opts for internship. Internship will be opted for only one trimester out of (VIII, IX & X)**

The subjects related to Peace (**Philosophy of science and religion**) and Finance (**Finance and Accounting**) may be repeated for three trimesters (3/2, 3/3, 4/1) , for 2 credits each, so that it will be easy for students to attempt them in any of the trimester with flexibility.

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### B. Tech. Electronics and Communication Engineering (Third Year) (Batch 2017-18) Trimester – IX\*\*\*

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	PEC3	Professional Elective -III	PE	4	-	2	2	1	50	50	50	150
2	PEC4	Professional Elective -IV	PE	4	-	2	2	1	50	50	50	150
3	OEC3	Open Elective-III	OE	4	-	-	2	-	50		50	100
4	OEC4	Open Elective-IV	OE	4	-	-	2	-	50		50	100
5	TE2	Mini Project-II	PBL		-	4	-	2	-	100	-	100
<b>Total:</b>				<b>19</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>600</b>

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 27 Hours**

\* CCA: Class Continuous Assessment

**Total Credits: Third Year B. Tech ECE Trimester - III: 12**

\* LCA: Laboratory Continuous Assessment

**\*\*\* Credits for internship will be 12, in lieu of the above subjects (1-5), if the student opts for internship. Internship will be opted for only one trimester out of (VIII, IX & X)**

The subjects related to Peace (**Philosophy of science and religion**) and Finance (**Finance and Accounting**) may be repeated for three trimesters (3/2, 3/3, 4/1), for 2 credits each, so that it will be easy for students to attempt them in any of the trimester with flexibility.

**Total Credit for third year B.Tech = 15 +12 +12 = 39**

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### B. Tech. Electronics and Communication Engineering (Fourth Year) (Batch 2017-18) Trimester –X\*\*\*

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	PEC5	Professional Elective -V	PE	4	-	2	2	1	50	50	50	150
2	PEC6	Professional Elective -VI	PE	4	-	2	2	1	50	50	50	150
3	OEC5	Open Elective-V	OE	4	-	-	2	-	50		50	100
4	OEC6	Open Elective-VI	OE	4	-	-	2	-	50		50	100
5	TE3	Mini Project-II	PBL		-	4	-	2	-	100	-	100
<b>Total:</b>				<b>19</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>600</b>

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 27 Hours**

\* CCA: Class Continuous Assessment

**Total Credits: Fourth Year B. Tech ECE Trimester - I: 12**

\* LCA: Laboratory Continuous Assessment

**\*\*\* Credits for internship will be 12, in lieu of the above subjects (1-5), if the student opts for internship. Internship will be opted for only one trimester out of (VIII, IX & X)**

The subjects related to Peace (**Philosophy of science and religion**) and Finance (**Finance and Accounting**) may be repeated for three trimesters (3/2, 3/3, 4/1), for 2 credits each, so that it will be easy for students to attempt them in any of the trimester with flexibility.

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### B. Tech. Electronics and Communication Engineering (Fourth Year) (Batch 2017-18) Trimester – XI

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	WEC1	Web Based Course	Self Study	-	-	-	2					-
2	EPP1A	Capstone Project Phase-I	PBL			16		8				200
						<b>16</b>	<b>2</b>	<b>8</b>				

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 16 Hours**

\* CCA: Class Continuous Assessment

**Total Credits: Fourth Year B. Tech ECE Trimester - II: 10**

\* LCA: Laboratory Continuous Assessment

During Capstone project a course on Project management for 3 credits needs to be completed as a part of the same.

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### B. Tech. Electronics and Communication Engineering (Fourth Year) (Batch 2017-18) Trimester – XII

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs.			Credits		Assessment Marks**			
				Theory	Tutorial	Lab.	Th.	Lab.	CCA*	LCA*	ETT	Total
1	WEC 2	Web Based Course	Self Study	-	-	-	2					-
2	EPP1B	Capstone Project Phase-II	PBL			24		12				300
						<b>24</b>	<b>2</b>	<b>12</b>				

\*\*Assessment Marks are valid only if Attendance criteria are met

**Weekly Teaching Hours: 24 Hours**

**Total Credits: Fourth Year B. Tech ECE Trimester - III: 14**

\* CCA: Class Continuous Assessment

\* LCA: Laboratory Continuous Assessment

**Total Credit for Fourth year B.Tech = 12 +10 +14 = 36**

**Total credit for B.Tech Program = 43 + 43 + 39 + 36 + 2(Peace) +2 (Finance) =165**

## APPENDIX - A



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### LIST OF PROFESSIONAL ELECTIVES OFFERED BY SCHOOL OF ELECTRONICS AND COMMUNICATION

<b>Basket of Professional Elective</b>					
<b>Basket No.</b>	<b>Basket -1</b>	<b>Basket -2</b>	<b>Basket -3</b>	<b>Basket -4</b>	<b>Basket -5</b>
<b>Name of Basket</b>	<b>Communication Engineering</b>	<b>Signal and Image Processing</b>	<b>VLSI &amp; Embedded</b>	<b>Artificial Intelligence</b>	<b>Electronics Engineering</b>
<b>PE 1</b>	Electromagnetics	Advanced DSP	FPGA & ASIC design	Maths for Artificial Intelligence	Power Electronics
<b>PE 2</b>	Coding Techniques	Digital Image Processing	Embedded Processors	Fuzzy Logic & Graph Theory	Mechatronics
<b>PE 3</b>	Antenna Design	Computer Vision	CMOS Digital VLSI design	Optimization Techniques	Electronics Product Design
<b>PE 4</b>	Wireless Communication	Pattern Recognition	Electronics Product Design	Machine Learning	Industrial Automation
<b>PE 5</b>	Microwave and Satellite Communication,	Digital Video Processing	Mixed Signal CMOS design	Artificial Neural Networks	Atmospheric Instrumentation
	Wireless Sensor Network Network Protocols	Speech Processing			Agriculture Electronics
<b>PE 6</b>	Fiber Optics Communication	Bio signal Processing	Automotive Electronics	Bioinformatics	Biomedical Electronics
	Internet of Things,	Natural Language Processing		Natural Language Processing	
	Software Defined Radios	AI for Medical Imaging		AI for Medical Imaging	Robotics and Automation
	Network Security				