

**B. Tech (ECE) Study Scheme and Syllabus****2014 Admission Batch Onwards****3<sup>rd</sup> Semester**

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
EC-14301	Engineering Mathematics-III	3	1	-	40	60	100	4
EC-14302	Object Oriented Programming Using C++ and Data Structures	3	1	-	40	60	100	4
EC-14303	Electronics Devices & Circuits - I	3	1	-	40	60	100	4
EC-14304	Electronic Measurement & Instrumentation	3	1	-	40	60	100	4
EC-14305	Network Analysis and Synthesis	3	1	-	40	60	100	4
EC-14306	Lab Electronics Devices & Circuits - I	-	-	2	30	20	50	1
EC-14307	Lab Electronic Measurement & Instrumentation	-	-	2	30	20	50	1
EC-14308	Lab Object Oriented Programming and Data Structures	-	-	2	30	20	50	1
TR-14301	Workshop Training*	-	-	-	60	40	100	2
<b>TOTAL</b>		<b>15</b>	<b>5</b>	<b>6</b>	<b>350</b>	<b>400</b>	<b>750</b>	<b>25</b>

\*The marks will be awarded on the basis of 4 weeks workshop training conducted after 2nd Semester

## 4<sup>th</sup> Semester

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
EC-14401	Linear Control Systems	3	1	-	40	60	100	4
EC-14402	Electronics Devices & Circuits - II	3	1	-	40	60	100	4
EC-14403	Signals & Systems	3	1	-	40	60	100	4
EC-14404	Electromagnetic Field Theory	3	1	-	40	60	100	4
EC-14405	Digital Electronics	3	1	-	40	60	100	4
EC-14406	Pulse Wave Shaping and Switching	3	1	-	40	60	100	4
EC-14407	Lab Electronics Devices & Circuits - II	-	-	2	30	20	50	1
EC-14408	Lab Digital Electronics	-	-	2	30	20	50	1
EC-14409	Lab Signals & Systems	-	-	2	30	20	50	1
GF-14401	General Fitness				100	NA	100	1
<b>TOTAL</b>		<b>18</b>	<b>6</b>	<b>6</b>	<b>430</b>	<b>420</b>	<b>850</b>	<b>28</b>

## 5<sup>th</sup> Semester

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
EC-14501	Antenna and Wave Propagation	3	1	-	40	60	100	4
EC-14502	Analog Communication Systems	3	1	-	40	60	100	4
EC-14503	Digital Signal Processing	3	1	-	40	60	100	4
EC-14504	Linear Integrated Circuits	3	1	-	40	60	100	4
EC-14505	Microprocessors & Interfacing	3	1	-	40	60	100	4
DEEC-145XX	Department Elective-I	3	1	-	40	60	100	4
EC-14510	Lab Linear Integrated Circuits	-	-	2	30	20	50	1
EC-14511	Lab Analog Communication Systems	-	-	2	30	20	50	1
EC-14512	Lab Microprocessors & Interfacing	-	-	2	30	20	50	1
EC-14513	Lab Digital Signal Processing	-	-	2	30	20	50	1
TR-14501	<b>Industrial Training-I*</b>				60	40	100	2
<b>TOTAL</b>		<b>18</b>	<b>6</b>	<b>8</b>	<b>420</b>	<b>480</b>	<b>900</b>	<b>30</b>

\*The marks will be awarded on the basis of 06 weeks industrial/institutional training conducted after 4<sup>th</sup> Semester

### Department Elective-I

DEEC-14506 Intellectual Property Rights

DEEC-14507 Business Analytics

DEEC-14508 Software Project Management

DEEC-14509 Total Quality Management

**B. Tech. Study Scheme  
6<sup>th</sup> Semester**

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
<b>EC-14601</b>	Digital Communication System	3	1	-	40	60	100	4
<b>EC-14602</b>	Microwave & Radar Engineering	3	1	-	40	60	100	4
<b>EC-14603</b>	Wireless & Mobile Communication System	3	1	-	40	60	100	4
<b>EC-14604</b>	Microcontrollers and Embedded System	3	1	-	40	60	100	4
<b>DEEC-146XX</b>	Department Elective-II	3	1	-	40	60	100	4
<b>OEXX-146XX</b>	Open Elective	3	-	-	40	60	100	3
<b>EC-14611</b>	Microcontrollers and Embedded System Lab	-	-	2	30	20	50	1
<b>EC-14612</b>	Microwave Engineering Lab	-	-	2	30	20	50	1
<b>EC-14613</b>	Digital Communication System Lab	-	-	2	30	20	50	1
<b>PREC-14601</b>	Minor Project	-	-	1	60	40	100	1
<b>GF-14601</b>	<b>General Fitness</b>				100	NA	100	1
<b>TOTAL</b>		<b>18</b>	<b>5</b>	<b>7</b>	<b>490</b>	<b>460</b>	<b>950</b>	<b>28</b>

**Department Elective-II**

- DEEC-14605 Micro Electronics
- DEEC-14606 Digital System Design
- DEEC-14607 Information Theory & Coding
- DEEC-14608 Intelligent Robotics
- DEEC-14609 Java Programming
- DEEC-14610 Computer Networks

**Open Elective (For other Branches)**

- OEEC-14601 Microprocessors and Microcontrollers
- OEEC-14602 Neural Networks & Fuzzy logic

**7<sup>th</sup> /8<sup>th</sup> Semester**

Course Code	Course Title	Course Component	Internal Marks	External Marks	Total Marks	Credits
<b>TREC-14701</b>	Industrial Training-II (Six months Industrial Training)	Industrial Training -II	450	350	800	13
<b>TREC-14702</b>		Industry Oriented Training	200	-	200	2
<b>Total</b>			<b>650</b>	<b>350</b>	<b>1000</b>	<b>15</b>

**7<sup>th</sup>/8<sup>th</sup> Semester**

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
<b>EC-14701</b>	VLSI Design	3	1	-	40	60	100	4
<b>EC-14702</b>	Optical Communication	3	1	-	40	60	100	4
<b>EC-14703</b>	Engineering Management	3	1	-	40	60	100	4
<b>DEEC-147XX</b>	Department Elective-III	3	1	-	40	60	100	4
<b>DEEC-147YY</b>	Department Elective-IV	3	1	-	40	60	100	4
<b>EC-14715</b>	Lab Optical Communication	-	-	2	30	20	50	1
<b>EC-14716</b>	Lab VLSI Design	-	-	2	30	20	50	1
<b>PREC-14701</b>	Major Project	-	-	3	120	80	200	3
<b>GF-14701</b>	General Fitness	-	-	1	100	NA	100	1
<b>TOTAL</b>		<b>15</b>	<b>5</b>	<b>8</b>	<b>480</b>	<b>420</b>	<b>900</b>	<b>26</b>

**Departmental Elective –III (Common Code XX)**

DEEC-14704	CMOS based Design
DEEC-14705	Biomedical Electronics
DEEC-14706	Satellite Communication
DEEC-14707	Speech & Image Processing
DEEC-14708	Human Resource Management
DEEC-14709	Computer Organization and Architecture

**Departmental Elective – IV (Common Code YY)**

DEEC-14710	CAD for VLSI Design
DEEC-14711	Wireless Sensor Networks
DEEC-14712	Operation Research
DEEC-14713	Mobile Computing
DEEC-14714	Numerical Methods in Engineering

