

**AKTU, LUCKNOW, U.P**  
**Study and Evaluation Scheme B. Tech. in Electronics Engg/Electronics & Communication**  
**Engg/Electronics & Telecommunication Engg**  
**[Effective from the session 2016-17]**

**YEAR 4<sup>th</sup>, SEMESTER-VII**

S. No	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total	Credit
						SESSIONAL EXAM.			ESE		
			L	T	P	CT	TA	Total			
<b>THEORY SUBJECTS</b>											
1.	NOE 07*	Open Elective-I**	3	1	0	30	20	50	100	150	4
2.	NEC 03*	Departmental Elective-III	3	1	0	30	20	50	100	150	4
3.	NEC 701	Optical Communication	3	1	0	30	20	50	100	150	4
4.	NEC 702	Data Communication Networks	3	1	0	30	20	50	100	150	4
5.	NEC 703	VLSI Design	3	1	0	30	20	50	100	150	4
6.	AUC 001	*Human Values & Professional Ethics	2	0	0	15	10	25	50	75	-
<b>PRACTICAL/DESIGN/DRAWING</b>											
7.	NEC 751	Optical Communication & Networking Lab	0	0	2	-	20	20	30	50	1
8.	NEC 752	Electronics Circuit Design Lab	0	0	3	-	20	20	30	50	2
9.	NEC 753	Industrial Training Viva-Voce	0	0	2	-	50	50	-	50	1
10.	NEC 754	Project	0	0	2	-	50	50	-	50	1
11.	NGP 701	General Proficiency	-	-	-	-	-	50	-	50	1
		<b>Total</b>	<b>15</b>	<b>5</b>	<b>9</b>	<b>150</b>	<b>240</b>	<b>440</b>	<b>560</b>	<b>1000</b>	<b>26</b>

**\*\* Open Electives-I**

NOE-071 Entrepreneurship Development  
 NOE-072 Quality Management  
 NOE-073 Operation Research  
 NOE-074 Introduction to Biotechnology  
 NOE-075 Micro and smart systems

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**YEAR 4<sup>th</sup>, SEMESTER-VIII**

S. No.	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total	Credit
						SESSIONAL EXAM.			ESE		
			L	T	P	CT	TA	Total			
<b>THEORY SUBJECTS</b>											
1.	NOE 08*	Open Elective-II**	3	1	0	30	20	50	100	150	4
2.	NEC 04*	Departmental Elective-IV	3	1	0	30	20	50	100	150	4
3.	NEC 801	Wireless & Mobile Communication	3	1	0	30	20	50	100	150	4
4.	NEC 802	Optical Network	3	1	0	30	20	50	100	150	3
5.	AUC 001	*Human Values & Professional Ethics	2	0	0	15	10	25	50	75	-
<b>PRACTICAL/DESIGN/DRAWING</b>											
6.	NEC 851	Project	0	0	12	-	100	100	250	350	8
7.	NGP 801	General Proficiency	-	-	-	-	-	50	-	50	1
		<b>Total</b>	<b>12</b>	<b>4</b>	<b>12</b>	<b>120</b>	<b>180</b>	<b>350</b>	<b>650</b>	<b>1000</b>	<b>24</b>

**\*\* Open Electives-II**

NOE-081 Non Conventional Energy Resources  
 NOE-082 Nonlinear Dynamic system  
 NOE-083 Product Development  
 NOE-084 Automation and Robotics

## **LIST OF ELECTIVES:**

### **Elective – III NEC 03\* Departmental Elective III**

1. NEC 031 Information Theory & Coding
2. NEC 032 Digital Image Processing
3. NEC 033 Voice Over IP
4. NEC 034 Filter Design
5. NEC 035 Applied Fuzzy Electronic Systems

### **Elective – IV NEC 04\* Departmental Elective IV**

1. NEC 041 Electronic Switching
2. NEC 042 Digital System Design using VHDL
3. NEC 043 Speech Processing
4. NEC 044 Advanced Display Technologies & Systems
5. NEC 045 Satellite & RADAR systems