

**TENTATIVE**  
**SCHEME OF EXAMINATION**

**for**

**BACHELOR OF VOCATION**  
**in**  
**CONSUMER ELECTRONICS**

**Offered by**

**University School of Engineering and Technology**

**3<sup>rd</sup> SEMESTER to 6<sup>th</sup> SEMESTER**



**GURU GOBIND SINGH  
INDRAPRASTHA  
UNIVERSITY**

**Guru Gobind Singh Indraprastha University**  
**Dwarka, Delhi – 110078 [INDIA]**

**[www.ipu.ac.in](http://www.ipu.ac.in)**

**BACHELOR OF VOCATION  
CONSUMER ELECTRONICS  
THIRD SEMESTER EXAMINATION  
(LEVEL-VI)**

Paper Code	Paper ID	Paper	L	T/P	Credits
<b>THEORY PAPERS</b>					
ETVCE-601		Linear & Digital IC	3	1	4
ETVCE-603		Embedded Systems	3	1	4
ETVCE-605		Programming through JAVA & C++	3	0	3
ETVCE-607		Telecommunication Networks	3	1	4
<b>OPEN ELECTIVE-III (Select any one)</b>					
ETVMS-601		Financial Accounting	3	0	3
ETVMS-603		Organizational Behavior	3	0	3
ETVMS-605		Operations Research	3	0	3
ETVMS-607		Industrial Management	3	0	3
ETVMS-609		Managerial Economics	3	0	3
<b>PRACTICAL/VIVA VOCE</b>					
ETVCE-651		Linear & Digital IC Lab	0	3	3
ETVCE-653		Embedded Systems Lab	0	3	3
ETVCE-655		Programming through JAVA & C++ Lab	0	3	3
ETVCE-657		Industrial Training-II	0	0	3
<b>TOTAL</b>			<b>15</b>	<b>12</b>	<b>30</b>

**^Industrial Training-III:**

The students are advised to undergo 2-weeks training in industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) during winter vacation and should submit training report for evaluation during the Fourth semester.

**BACHELOR OF VOCATION  
CONSUMER ELECTRONICS  
FOURTH SEMESTER EXAMINATION  
(LEVEL-VI)**

Paper Code	Paper ID	Paper	L	T/P	Credits
<b>THEORY PAPERS</b>					
ETVCE-602		Modern Audio & Video Engineering	3	1	4
ETVCE-604		Microwave Engineering & Applications	3	1	4
ETVCE-606		Advance Communication System	3	1	4
<b>CORE ELECTIVE-I (Select any one)</b>					
ETVCE-608		Microelectronic Circuits	3	1	4
ETVCE-610		Power Electronics	3	1	4
ETVCE-612		Multimedia & its Applications	3	1	4
<b>OPEN ELECTIVE-IV (Select any one)</b>					
ETVHS-602		French	3	0	3
ETVHS-604		Spanish	3	0	3
ETVHS-606		Mandarin	3	0	3
ETVHS-608		German	3	0	3
ETVHS-610		Portuguese	3	0	3
ETVMS-602		Entrepreneurship Development and Planning	3	0	3
ETVCS-602		Data Science	3	0	3
<b>PRACTICAL/VIVA VOCE</b>					
ETVCE-652		Modern Audio & Video Engineering	0	3	3
ETVCE-654		Microwave Engineering & Applications	0	3	3
ETVCE-656		Advance Communication System Lab	0	3	3
ETVCE-658		Industrial Training-III <sup>^</sup>	0	0	2
ETVCE-660		Project-II	0	3	3
<b>TOTAL</b>			<b>15</b>	<b>16</b>	<b>33</b>

**<sup>^^</sup>Industrial Training-IV:**

The students are advised to undergo 6-8 weeks training in industry/Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) during summer vacation and should submit training report for evaluation during the Fourth semester.

**Note for Project:**

The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format, thereafter he/she will have to present the progress of the work through seminars and progress reports.

**BACHELOR OF VOCATION  
CONSUMER ELECTRONICS  
FIFTH SEMESTER EXAMINATION  
(LEVEL-VII)**

Paper Code	Paper ID	Paper	L	T/P	Credits
<b>THEORY PAPERS</b>					
ETVHS-701		Technical English (Common to all disciplines)	3	0	3
ETVCE-703		VLSI Design	3	0	3
<b>CORE ELECTIVE-II (Select any one)</b>					
ETVCE-705		Fiber Optics & Optoelectronics	3	0	3
ETVCE-707		Digital System Design with VHDL	3	0	3
ETVCE-709		Operating System	3	0	3
<b>CORE ELECTIVE-III (Select any one)</b>					
ETVCE-711		Advanced Microprocessor & Microcontroller	3	0	3
ETVCE-713		Digital & Data Communication	3	0	3
ETVCE-715		Digital Signal Processing	3	0	3
<b>PRACTICAL/VIVA VOCE (Select any one Lab based on CORE ELECTIVE-II)</b>					
ETVCE-755		Fiber Optics & Optoelectronics Lab	0	3	3
ETVCE-757		Digital System Design with VHDL Lab	0	3	3
ETVCE-759		Operating System Lab	0	3	3
<b>PRACTICAL/VIVA VOCE (Select any one Lab based on CORE ELECTIVE-III)</b>					
ETVCE-761		Advanced Microprocessor & Microcontroller	0	3	3
ETVCE-763		Digital & Data Communication	0	3	3
ETVCE-765		Digital Signal Processing	0	3	3
<b>GENERAL ELECTIVE-II (Select any one)**</b>					
ETVSS-751		NCC	2	1	3
ETVSS-753		NSS	2	1	3
ETVSS-755		Sports	2	1	3
ETVSS-757		Community Services	2	1	3
ETVSS-759		ECO Club	2	1	3
ETVSS-761		YOGA	2	1	3
<b>PRACTICAL/VIVA VOCE</b>					
ETVHS-751		Language Lab (Common to all disciplines)	0	3	3
ETVCE-753		VLSI Design Lab	0	3	3
ETVCE-767		Minor Project	0	3	3
ETVCE-769		Industrial Training-IV^^	0	0	3
<b>TOTAL</b>			<b>14</b>	<b>16</b>	<b>33</b>

**#Industrial Training-V:**

The students are advised to undergo 2 weeks training in industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) during winter vacation and should submit training report for evaluation during the Sixth semester.

**BACHELOR OF VOCATION  
CONSUMER ELECTRONICS  
SIXTH SEMESTER EXAMINATION  
(LEVEL-VII)**

Paper Code	Paper ID	Paper	L	T/P	Credits
<b>THEORY PAPERS</b>					
ETVCE-702		Computer and Peripheral Maintenance	3	1	4
<b>CORE ELECTIVE-IV (Select any one)</b>					
ETVCE-704		Biomedical Instruments	3	0	3
ETVCE-706		Process Control	3	0	3
<b>CORE ELECTIVE-V (Select any one)</b>					
ETVCE-708		Satellite Communication	3	0	3
ETVCE-710		Electronic Security System	3	0	3
ETVCE-712		Robotics Engineering	3	0	3
<b>PRACTICAL/VIVA VOCE (Select any one Lab based on CORE ELECTIVE-III)</b>					
ETVCE-754		Biomedical Instruments	0	3	3
ETVCE-756		Process Control	0	3	3
<b>PRACTICAL/VIVA VOCE</b>					
ETVCE-752		Computer and Peripheral Maintenance Lab	0	3	3
ETVCE-758		Industrial Training-V#	0	0	3
ETVCE-760		Major Project*#	0	12	12
<b>TOTAL</b>			<b>09</b>	<b>19</b>	<b>31</b>

\*#The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format, thereafter he/she will have to present the progress of the work through seminars and progress reports. Seminar related to major project should be delivered one month after starting of Semester. The progress will be monitored through seminars and progress reports. *The camps or classes for the said programme can be held either during weekend/holidays or winter/summer vacations. If in case, the classes are held during Saturday /Sunday then faculty should be given off in lieu of Saturday/Sunday.*

**For Award of Diploma:**

1. The total number of the credits of the Diploma (Consumer Electronics) Programme = 63.
2. Student shall be required to appear in examinations of all courses. However, to award the Diploma (Name of Discipline) a student shall be required to earn a minimum of 60 credits, including mandatory papers (M).

**For Award of Advanced Diploma:**

1. The total number of the credits of the Advanced Diploma (Consumer Electronics) Programme = 126.
2. Student shall be required to appear in examinations of all courses. However, to award the Advanced Diploma (Consumer Electronics) a student shall be required to earn a minimum of 120 credits, including mandatory papers (M).

**For Award of B.Voc Degree:**

1. The total number of the credits of the B.Voc. (Consumer Electronics) Programme = 190.
2. Student shall be required to appear in examinations of all courses. However, to award the degree a student shall be required to earn a minimum of 180 credits, including mandatory papers (M).

**FOR LATERAL ENTRY STUDENTS- For Award of Advanced Diploma:**

1. The total number of the credits of the Diploma (Consumer Electronics) Programme = 63
2. Each student shall be required to appear for examinations in all courses Third Semester onwards. However, for the award of the degree a student shall be required to earn a minimum of 60 credits, including mandatory papers (M).

**FOR LATERAL ENTRY STUDENTS- For Award of B.Voc Degree:**

1. The total number of the credits of the Diploma (Consumer Electronics) Programme = 127
2. Each student shall be required to appear for examinations in all courses Third Semester onwards. However, for the award of the degree a student shall be required to earn a minimum of 120 credits, including mandatory papers (M).

Tentative Scheme for Level VI and VII for B.Voc. (Consumer Electronics). The detailed Scheme and Syllabi for Level VI and VII shall be got approved during the Academic Year 2016-17 by the BOS of USET and Academic Council of GGSIPU.