

<b>DEPARTMENTAL ACADEMIC AUDIT PROFORMA</b>		
<b>Guru Jambheshwar University of Science and Technology, Hisar-125001</b>		
Format for submission of Academic Audit Report (AAR)		
<b>Profile of the Department</b>		
Academic Session: 2020-21 & 2021-22		
1.	Name of the Department	Electronics & Communication Engineering (ECE)
	Website Link:	<a href="https://www.gjust.ac.in/department/ece/ece.html">https://www.gjust.ac.in/department/ece/ece.html</a>
	Email:	<a href="mailto:ece@gjust.org">ece@gjust.org</a>
	Ph. No:	01662-263171
2.	Name of the Chairperson	Mrs. Suman Dahiya
	Email	<a href="mailto:suman23dahiya@gmail.com">suman23dahiya@gmail.com</a>
	Contact No:	9466681149
3.	Name of the Department IQAC Coordinator:	Prof. Ashish Agarwal
	Email:	<a href="mailto:iqacellgjust@gmail.com">iqacellgjust@gmail.com</a>
	Contact No:	01662-263512
4.	Year of Establishment	2001
5.	Accreditation Status (NBA etc):	NBA (Both UG & PG till June 2025)
	Approval Status (AICTE/PCI etc.)	Yes, AICTE approved
6.	i) No. of Posts Sanctioned (Teaching):	21
	a) No. of Posts Filled :	15
	b) No. of Faculty on contract	06
	ii) No. of Posts Sanctioned (Non-Teaching)	11
	No. of Posts Filled	09

<b>I-CURRICULAR ASPECTS</b>				
	<b>Item/Activity</b>	<b>Impression of Academic Advisor with grade</b>		<b>Recommendation/Suggestions/Remark by Academic Advisors</b>
		<b>After observation</b>		
		<b>Grade</b>	<b>Actual Status</b>	
1.	Implementation of Academic Calendar (Yes/No) <b>Yes</b>	A	A	---
2.	Semester-wise Curricular Plans (Yes/No) <b>Yes</b>	A	A	---
3.	Record of Semester-wise Activity (Yes/No) <b>Yes</b>	A	A	---
4.	Semester-wise Add-on Courses (Yes/No) If Yes, please specify	A*	A	---
5.	Coverage of Syllabus (Average Percentage)	(100 %) A	A	---
6.	Teaching of Foundation Courses (Yes/No) If Yes, please specify (MOOC courses)- <b>Yes</b>	A*	A	---
7.	Teaching of courses on Environmental Science and Ethics/Human values/Sustainability (Yes/No) <b>Yes</b>	A	A	---
8.	Maintenance of Student Attendance Registers (Yes/No) <b>Yes</b>	A	A	---
9.	Mechanism for feedback on curriculum from students (Yes/No) <b>Yes</b>	A	A	---

**Note: \* Details attached at annexure I**



<b>II-TEACHING, LEARNING &amp; EVALUATION</b>				
	<b>Item/Activity</b>	<b>Impression of Academic Advisor with grade</b>		<b>Recommendation/ Suggestions by Academic Advisors</b>
		<b>A (Very Good)/ B (Good)/ C (Satisfactory)</b>	<b>After observation</b>	
		<b>Grade</b>	<b>Actual Status</b>	
1.	Programme-wise strength of students	A*	A	
2.	Catering to student diversity: a. Socio-Economic diversity (State the percentage of students from Gen., SC, BC, EWS etc.) b. Gender Ratio (State No. of Male and Females) c. Regional/National//International Diversity (State the percentage of students from states other than Haryana and outside India)	A*	B	Component 'c' needs improvement.
3.	Adherence to Academic Calendar (Yes/No) <b>Yes</b>	A	A	---
4.	Teaching Plans (Yes/No) <b>Yes</b>	A	A	---
5.	Continuous Evaluation Mode (Yes/No) <b>Yes</b>	A	A	---
6.	Course-wise Result Analysis (Yes/No) <b>Yes</b>	A	A	---
7.	Teaching and Evaluation Reforms (Yes/No) <b>Yes</b>	B	A	---
8.	Remedial Classes (Yes/No) <b>Yes</b>	A	A	---
9.	Invited lectures organized (Yes/No) If yes, please specify <b>Yes</b>	B	B	Number of invited lectures for students should be increased.
10.	Whether POs and COs are communicated to the students and displayed on the university website (Yes/No). <b>Yes</b>	A	A	---
11.	Mechanism of feedback for Teaching Learning Process from students (Yes/No) <b>Yes</b>	A	A	---

**Note: \* Details attached at annexure II**

<b>III-RESEARCH AND CONSULTANCY</b>				
	<b>Item/Activity</b>	<b>Impression of Academic Advisor with grade</b>		<b>Recommendation/Suggestions by Academic Advisors</b>
		<b>A (Very Good)/ B (Good)/ C (Satisfactory)</b>	<b>After observation</b>	
		<b>Grade</b>	<b>Actual Status</b>	
1.	No. of Faculty who guide Doctoral Research	A*	B	Remaining 1/3 faculty members should complete their doctorate and start guiding.
2.	No. of Research Scholars No. of Research Scholars with Fellowships (JRF/DST/UGC etc.)	B*	B	---
3.	No. of Ph.D awarded	B*	B	---
4.	Major/Minor Research Projects/Other grants a. Ongoing b. Completed	B*	B	---
5.	No. of Copyrights No. of Patents	B*	B	---
6.	Research Awards	B	B	---
7.	Research Papers Published in Academic year (International /National Journals)	A	A	---
8.	Research Papers Published in Academic year (International /National/ State Level Conferences)	A	A	---
9.	Book Chapters contributed to Edited Volumes	B	B	---
10.	Papers Presented in Academic year (International/ National/ State level conferences)	A	A	---
11.	Books Published in Academic year (Single Author/ Co Author)	--	---	---
12.	Seminars/Workshops/ Training Program Conducted in Academic year (International/National/ State)	A	A	---
13.	Consultancy work undertaken in Academic year	--	---	Should approach nearby industries.
14.	MOUs in Academic year with institutes of national/international excellence /industries	B	B	---
15.	Innovation if any	C	C	Innovation/start-up cell be established.

**Note: \* Details attached at annexure III**



## V-STUDENT SUPPORT ACTIVITIES AND PROGRESSION

	Item	Impression of Academic Advisor with grade		Recommendation/Suggestions by Academic Advisors
		A (Very Good)/ B (Good)/ C (Satisfactory)	After observation	
1.	Students trained in different verticals Specialized Trainings (Yes/No) <b>YES</b>	B	B	---
2.	Number of students placed (Programme-wise) <b>2020-21 --- 17</b> <b>2021-22 --- 25</b>	B	B	Soft-skill classes may be organized to improve employability of students.
3.	Name of Career Guidance Coordinator: Mr. Sardul Email: <a href="mailto:sardulsingh@gmail.com">sardulsingh@gmail.com</a> Contact No: 01662 -263171	----	---	Semester-wise schedule may be planned.
4.	Name of Alumni Coordinator: Mr. Sardul Email: <a href="mailto:sardulsingh@gmail.com">sardulsingh@gmail.com</a> Contact No: 01662 -263171	----	---	At least one activity per year should be planned.
5.	Alumni Association Activities (Yes/No) <b>YES</b>	B	B	---
6.	Grievance Redressal Cell /Anti Ragging Cell (Yes/No) <b>YES</b>	A	A	---
7.	Gender, Environment Sensitization Programmes Conducted	A	A	---
8.	List the Awards and Prizes earned by students	C	C	---
9.	Mentoring /Counseling System (Yes/No) <b>YES</b>	A	A	---
10.	Progression of students <b>20-21 21-22</b> a. Higher Education      07 04 b. In service                15 24 c. Self-employed          04 01 /Entrepreneurs <b>(Improvement measures undertaken are attached at annexure V)</b>	B	B	---
11.	No. of students who qualified NET/SLET/JRF/GATE/GPAT etc. GATE = 01 + 02 =03 NET = 01+ 01 = 02	B	B	---



VI-INFRA-STRUCTURE				
	Item	Impression of Academic Advisor with grade		Remarks/Recommendation/ Suggestions by Academic Advisors
		A (Very Good)/	B (Good)/	
		C (Satisfactory)		
		After observation		
		Grade	Actual Status	
1.	Adequate Infra-structural Facilities (Yes/No) YES a. Students B. Tech M.Tech 2020-21 267 27 2021-22 270 31 b. Academic Administration and Faculty Staff -04, Non –Tech-08, Faculty –21. c. Non-Teaching Staff –12	A	A	---
2.	Total No. of Classrooms: 06 No. of ICT enabled Classrooms: 01	A	A	---
3.	Number of Labs: 10 Adequate equipment (working condition) (Yes/No) YES	A	A	---
4.	Availability of Sufficient Computing Facilities (Yes/No) YES	A	A	---
5.	Availability of Internet Services (LAN/WIFI) ONLY LAN	A	A	---
6.	Basic Amenities: Availability of Drinking water (Yes/No) YES Maintenance of Hygiene and Sanitation (Yes/No) YES Availability of First-aid facilities (Yes/No) YES Availability of Facilities for Differently-abled person (Yes/No) YES	A	A	---
7.	List the Equipment Purchased List Attached at annexure VI	A	A	---

### VII-GOVERNANCE AND LEADERSHIP


	Item	Impression of Academic Advisor with grade A (Very Good)/ B (Good)/ C (Satisfactory) After observation		Recommendation/ Suggestions by Academic Advisors
		Grade	Actual Status	
1.	Vision and Mission of the Department (Yes/No)  <b>Attached at annexure VII</b>	Yes A	A	---
2.	Record of functioning of Staff Council/DRC/BOSR/any other committee is maintained (Yes/No)	Yes A	A	---
3.	Do the members of various committee are given sufficient notice for the meetings (Yes/No)	Yes A	A	---
4.	Physical Stock Verification (Yes/No)	Yes A	A	---
5.	Availability of Annual Perspective Plan (Yes/No)	Yes B	A	---





**VIII-BEST PRACTICES**

Item	Impression of Academic Advisor with grade A (Very Good)/ B (Good)/ C (Satisfactory) After observation	Recommendation/Suggestions by Academic Advisors	
		Grade	Actual Status
1. Mention any two best practices adopted by the Department  Details attached at Annexure VIII	A	A	---
2. Describe any Distinctive/Innovative features  Details attached at Annexure VIII	A	A	---
3. Any other remarks  Details attached at Annexure VIII	---	---	---

  
 Signature of Chairperson  
 Deptt. of Elec. & Comm. Engg.  
 Guru Jambheshwar Uni. of Sci. & T.  
 HISAR

  
 11-07-2022  
 Signatures of Academic Supervisors


## ANNEXURE I

### 1. List of add on courses in curriculum

- I. Induction Training (UG)
- II. Environmental Sciences (UG)
- III. Indian Constitution (UG & PG)
- IV. Human Values & personality development (UG)
- V. Essence of Indian Traditional knowledge (UG)
- VI. English For Research Paper Writing (PG)
- VII. Disaster Management (PG)
- VIII. Value Education (PG)
- IX. Stress Management By Yoga (PG)
- X. Sanskrit For Technical Knowledge (PG)
- XI. Pedagogy Studies (PG)
- XII. Personality Development through Life Enlightenment Skills (PG)

### 2. Provision of Foundations Courses (MOOC courses)

The students of the department are motivated to enroll themselves in different relevant MOOC courses in B.Tech 3<sup>rd</sup> year and 4<sup>th</sup> year. Following is the guideline to enroll for the MOOC/SWAYAM course which is duly approved by departmental BoS&R:

**The MOOC/SWAYAM/equivalent course proposed/shortlisted by the students will be reviewed and finalized by the departmental committee consisting of Chairperson, Class co-ordinator/Incharge and Subject teacher concerned (to be appointed by Chairperson). The committee will ensure that the course content of this course should not overlap (more than 10%) with subjects already covered in the scheme and syllabus.**

## TEACHING, LEARNING & EVALUATION

### 1. Programme wise strength of students

Session	B. Tech	M. Tech
AY 2021-22	270	31
AY 2020-21	267	27

### 2. Catering to student diversity:

d. Socio-Economic diversity (State the percentage of students from Gen., SC, BC, EWS etc.)

Session	GEN	SC	BC	EWS	KM	TWF
AY 2021-22	66.12	7.31	21.93	2.32	0.99	1.33
AY 2020-21	65.31	8.50	22.79	1.70	0.68	1.02

e. Gender Ratio (State No. of Male and Females)

Session	Male	Female
AY 2021-22	220	81
AY 2020-21	218	76

f. Regional/National//International Diversity (State the percentage of students from states other than Haryana and outside India)

Session	Percentage
AY 2021-22	1.66
AY 2020-21	9.86

**ANNEXURE III****RESEARCH and CONSULTANCY**

1.	No. of faculty who guide Doctoral Research	06
2.	No. of Research Scholars	17
	No. of Research Scholars with Fellowships (JRF/DST/UGC etc.)	05
3.	No. of Ph.D awarded	08
4.	Major/Minor Research Projects/Other grants	
	5. Ongoing	01
	b. Completed	03
5.	No. of Copyrights	00
	No. of Patents	05

**Improvement measures undertaken for placement, higher education and entrepreneurship:**

The department in association with Training & Placement cell of the university is dedicated to bridge between industries and our students by holding a range of programs like Employability Skill Training, Campus Recruitment Training, Employability Assessment Tests, In-House Summer Training on latest technology topics, Industry Interaction Programs, Industrial Visits, Monthly Aptitude & Oratory Competitions and many more in addition to Placement and Internship Drives.

To increase the interest of the students towards the higher education counseling of the students was done. Extra classes for the preparation of GATE exam, was also arranged for the students. Expert lectures from academia as well as industry experts, were organized to motivate the students towards the higher studies and to opt the research as a carrier.

To enhance the entrepreneur skills, intellectual property rights and class room activities were also organized in the department. Employability Assessment Tests was regularly conducted by the Training & Placement cell of university.

**List of Equipment**

<b>Sr. No.</b>	<b>Hardware/Application Software</b>	<b>Date</b>	<b>Total Amount</b>
01	Xilinx VIVADO Design Suite	29/01/20	12,40,000/-
02	Mentor Graphics Tools for IC Design (HEP1 # HEP2)	18/02/20	10,81,500/-
03	ALL in One PC (HP Desktop) – 25	25/03/21	10,00,000/-
04	OptiSystem VERSION 18.0 --- 5 User	30/03/22	6,00,000/-
05	Demonstration kits for EMI lab	10/01/21	2,80,000/-
06	Demonstration kits for Communication lab	15/02/21	3,00,000/-

**Vision & Mission of the department:**

**Vision:** To establish the department as a hub with the state of the art facilities to promote quality education, training, research and outreach activities in the field of Electronics & Communication Engineering and other related areas.

**Mission:**

- To produce quality students with passion for knowledge and creativity in the field of Electronics & Communication engineering.
- To train the students community through continuously evolving education, training and research in order to achieve holistic development with conviction for social and technical ethics.
- To facilitate and promote job oriented education in the emerging areas of Electronics & Communication Engineering.

**1. Best practices adopted by the department**

- OBE based curriculum is fully implemented for both UG and PG course.
- Remedial classes/ special classes are held regularly for competitive exams preparation.
- Laboratories are continuously updated.
- Curriculum is regularly updated according to latest skill set required in industry.

**2. Distinctive/Innovative features**

- NBA accreditation for both UG and PG program since 2016.
- Department of Information Technology, Govt. of Haryana sponsored Incubation Centre is being developed.
- 05 no. of patents have been successfully filed by the faculty of the department.
- Department has entered in an MoU with CEERI, Pilani for R&D work.

**3. Other features**

- An elective subject for Drone and Anti-drone technology has been introduced in the UG curriculum to meet the industry standards.
- An investment of Rs. 27 Lacs has been done in the last two years to upgrade laboratories.