

Departmental Information

Department of Electronics and Communication Engineering

1. Name of the department : Electronics and Communication Engineering(ECE)
2. Year of Establishment : 2008
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : B.Tech , M.Tech
4. Names of Interdisciplinary courses and the departments/units involved

S.No	Name of Deptt.	Name of Subject
1	Applied Sciences	Math -III
2	CSE	Object Oriented Programming Using C++
3	CSE	Data Structures

5. Annual/ semester/choice based credit system (programme wise)

B.Tech	semester
M.Tech	semester

6. Participation of the department in the courses offered by other departments

S.No	Name of Deptt.	Name of Subject
1	CSE,ME,CE,IT	Basic Electronics and Electrical Engineering
2	CSE,IT	Digital Circuit & Logic Design
3	CSE	Micro Processor
4	MCA	Embedded System

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL
8. Details of courses/programmes discontinued (if any) with reasons : NIL
9. Number of Teaching posts

	Sanctioned	Filled
Professors	4	4
Associate Professors	8	8
Asst. Professors	24	24

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for
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1	Amandeep Kaur	M.Tech	Associate Professor	Optical wireless Communication	8 .5 years	NIL
2	Neetu Gupta	M.Tech	Associate Professor	Communication system	9 years	NIL
3	Dr. Satinder Pal	MA, Ph.D	Professor	Modern Algebra & Real Analysis	33	
4	Prof. S. K Arora	MA	Professor.		37	
5	Maalti Puri	M.Tech	Associate Professor	Communication system	12 years	NIL
6	Amritpal singh	M.Tech	A.P	Communication system	4 years	NIL
7	Chandanpreet kaur	M.Tech	A.P	Neural Networks	4 years	NIL
8	Dr. Ravinder singh	M.Sc, Ph.D	Associate Prof.		9	
9	Mr .Charanjit Singh	M. Sc. (Maths),	Associate Prof.	Applied Mathematics	11	
10	Paramit Singh	M.Tech	A.P	Wireless Network	5 years	NIL
11	Navpreet singh	M.Tech	A.P	Communication System	4 years	NIL
12	Gursimranjeet kaur	M.Tech	A.P	Fuzzy Expert system	3 years	NIL
13	Hartej Singh	M.Tech	A.P	Communication System	4 years	NIL
14	Ravi Parkash	M.Tech	A.P	Communication System	6.5 years	NIL
15	Rahul	M.Tech	A.P	Communication System	3.5 years	NIL
16	Harmandeep Singh	M.Tech	A.P	Wireless Communication	3 years	NIL
17	Garima Mailk	M.Tech	A.P	Wireless Communication	4 years	NIL
18	Amanbir Kaur	M.Tech	A.P	Image Processing	6 years	NIL
19	Heena Gulati	M.Tech	A.P	Communication System	1 year	NIL
20	Neha Gulati	M.Tech	A.P	Communication System	1 year	NIL
21	Sukhjinder Singh	M.Tech	A.P	Optical Communication	2 year	NIL
22	Dr. Leena Jain	Ph.D, MCA	Associate professor	Optimization Techniques	9 years	6 Ph. D Scholar

23	Navjot Kaur	M.Tech	A.P	Image Processing	1 year	NIL
24	Danish	M.Tech	A.P	Optical Communication	1 year	NIL
25	Preetmani Singh	M.Tech	A.P	Wirless communication	1 year	NIL
26	Rohit Kapahi	M.Tech	A.P	Wirless communication	1 year	NIL
27	Navkiran kaur	M.Tech	A.P	Nano Technology	2.5 years	NIL
28	Dr. Pooja Mahajan	M.Sc, Ph.D	Associate Prof.	Solid Mechanics	4.5	
29	Kiranbir Kaurr	M.Tech	A.P	VLSI	4.5 years	NIL
30	Harsimranjit Singh	M.Tech	A.P	Fuzzy Expert System	6.5 years	NIL
31	Ms. Namita	MA	Assistant Prof.	Linguistics	12	
32	Ms. Inderjot Kaur	MA, M.Phil	Assistant Prof.	Linguistics	6.5	
33	Ms. Karamjit Kaur	M.Sc. (Chem)	Assistant Prof.			
34	Prof. B.D Sharma	M.Com, LL.B	Professor	Finance	38	
35	GS. Guglani	Post Graduate in	Asso. Prof.	Industrial Engineering	4	
36	Dr. Arvind Bhardwaj	Ph.D in Mechanical	Prof.	Production Engineering	26	

11. List of senior visiting faculty : NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL
13. Student -Teacher Ratio (programme wise)

Course B.Tech ECE	Student Teacher Ratio
Total No. of Students =265 Total No. Of Teachers=22	1:12
Course M.Tech ECE	Student Teacher Ratio
Total no of students=22 Total no of teachers=2	1:11

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned 6	Filled 5
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15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

No.of Faculty with Ph.D	0
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16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : NIL

18. Research Centre /facility recognized by the University: R & D Lab

19. Publications:

* a) Publication per faculty

* Number of papers published in peer reviewed journals (national / international) by faculty and students

*Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Monographs

* Chapter in Books

* Books Edited

* Books with ISBN/ISSN numbers with details of publishers

* Citation Index

* SNIP

* SJR

* Impact factor

* h-index

a) Number publications in International Journals : 42

b) Number of publications in National Conferences : 9

c) Number of publications in International Conferences : 5

20. Areas of consultancy and income generated : NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Board
Faculty Member of National Committee(ISTE)

S.No	Name of the Faculty
1	Er.Neetu Gupta
2	Er.Harsimranjit Singh
3	Er.Harmandeep Singh

4	Er.Navpreet Singh
5	Er.Garmia Malik
6	Er.Paramjit Singh
7	Er.Kiranbir Kaur
8	Er.Gursimranjit Kaur
9	Er.Ravi parkash

Faculty Member of International Committee(IEEE)

S.No	Name	Membership No.
1	Er.Amandeep Kaur	93325119

Editorial Committee: NIL

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: **100 %**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: **NIL**

23. Awards / Recognitions received by faculty and students

- BEST student Award: Hemant Arora
- Best student Award to Jaswinder Singh under ISTE student chapter in Adesh Institute:
- 2nd position in Robo race in Scintilla-2014 held at Adesh Institute of Engg& Tech. by Jaswinder Singh.
- Jaswinder Singh awarded first position in Roba Soccer in Minerva 2014 held at Rayat – Bahra Ropar campus.

24. List of eminent academicians and scientists / visitors to the department

S.No.	Event	Resource Person	Date
1	Talk on IBM DB2 Technology (IBM officials)	Mr. Paramjit Singh Gill From USA	4 APRIL 2013
2	Talk on joy of Computing	Dr.Sudarshan Iyengar,Assistant Professor, IIT Ropar	10 SEPT 2013

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) National

S.No	Date	Topic	Funded By
1	16-20 JUNE 2014	FDP (Recent Trends in Electronics and communication Engg.)	PTU

2	5 JAN 2015	National Workshop on “Optical Wireless Communication”	PTU
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b) International: NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.tech(2014-15)	39	19	17	2	30.3%
M.Tech	39	9	1	8	100%
B.tech(2013-14)	61	34	27	7	13.4%
M.Tech	34	13	3	10	100%
B.tech(2012-13)	93	73	35	38	92.3%
M.Tech	28	18	4	14	100%
B.tech(2011-12)	155	115	81	34	70.1%

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.tech(2014-15)	100%	NIL	NIL
M.Tech(2014-15)	100%	NIL	NIL
B.tech(2013-14)	91.2%	8.8%	NIL
M.Tech(2013-14)	100%	NIL	NIL
B.tech(2012-13)	96%	4%	NIL
M.Tech(2012-13)	100%	NIL	NIL
B.tech(2011-12)	96.6%	3.4%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	32
PG to M.Phil.	NIL

PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	28
• Other than campus recruitment	44
Entrepreneurship/Self-employment	NIL

30. Details of Infrastructural facilities

a) Library:

- No. of books in departmental library:250
- No of journals in deptt. Library:NIL
- No.of books in main library: Title: 794 Volume:3775
- No.of journals in main library: National journal 12 and e-journal access by delnet
- No. of books & journals in research centre :NIL

b) Internet facilities for Staff & Students: **64 Mbps leased line connectivity.**

c) Class rooms with ICT facility **2**

d) Laboratories

S.NO	Laboratory description in the curriculum
1	Basic Electrical & Electronics Lab
2	Analog Devices & Circuit /LIC/MWR Lab
3	Embedded System /Hardware Programming Lab
4	Digital Circuits & Logic Design Lab
5	Analog Digital Communication Systems Lab
6	Research & Development lab

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S.No.	Event	Resource Person	Date
1	Two Day Workshop, Embedded product design	Mr. Gurmeet singh	29-30 SEPT 2014

	using ARM processor	(EEAST Company)	
2	Embbded System and its Applications	Dr. Sanjeev Kumar (Sr. Scientist, CSIO, Chandigarh)	11OCT.2013
3	Two DAY workshop on Ns2 Simulator	Mr. Umesh Yadav from NEX-G Institue	16-17 OCT 2014
4	Workshop on Telecommunication Engineering	Er.Kapil Bhutani- Technical Director (Teclocrates Technologies Pvt Ltd.)	2 MARCH 2015
5	Three days Robotics Workshop	Er. Ashish Sethi (EEAST, Chandigarh)	8-10 June2015

33. Teaching methods adopted to improve student learning:

- LCD overhead projector
- 3Assignments per semester
- Problem solving in tutorial classes
- Question bank given to students chapter wise
- Guest lectures by other department and eminent guests from other institutes.
- NPTEL videos
- Industrial Visit and tours

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Blood Donation Camp
- Voter ID enrollment
- Tree Plantation
- NSS, Swatch Bharat Abhiyan
- Funds for natural calamities(floods)

35. SWOC analysis of the department and Future plans

Strength:

- MOUs with a couple of multinational companies.
- Development of Center of Excellence (Robotics and Industrial Automation) in the department.
- Availability of qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.

- Systematic monitoring of teaching-learning process.
- Better guidance to final year students for Major Projects.
- Innovative projects by the students which becomes example for junior students.
- **Weakness**
 - The numbers of research publications in international journals are not up to the expected levels. But, trends are encouraging due to emergence of certain research groups which are becoming prominent in the college.
- **Opportunities**
 - Training is an essential component of teaching and industry. There is a good scope of training the teachers and industry personnel in various departments and centers.
 - New topics according to the Industry requirement can be design and Implement
- **Challenges'**
 - Because of more number of Engineering Colleges, quality of intake is poor, especially in rural Engineering Colleges.
 - Rapid changes in technology and time bound Learning & Training skills for the faculty.

Future plans of the department.

- To strengthen the industry-institute interaction
- To enhance industry oriented projects.
- To encourage students to qualify gate like exams.
- To make students capable to appear in MNC's and more employable.
- To take up R&D projects from funding agencies like DST, UGC and AICTE