



JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

Jaipur Engineering College and Research Centre, Jaipur

First Year (2023-24)


**Experience Learning (Lab+ Theory) =55%**

Code	Subjects	Experience Learning(Project work/field work/Internship)
1FY2-01	Engineering Mathematics-I	No
1FY2-02	Engineering Physics	No
1FY2-03	Engineering Chemistry	No
1FY1-04	Communication Skills	No
1FY1-05	Human Values	No
1FY3-06	Programming for Problem Solving	No
1FY3-07	Basic Mechanical Engineering	No
1FY3-08	Basic Electrical Engineering	No
1FY3-09	Basic Civil Engineering	No
1FY2-20	Engineering Physics Lab	Yes
1FY2-21	Engineering Chemistry Lab	Yes
1FY1-22	Language Lab	Yes
1FY1-23	Human Values Activities and Sports	Yes
1FY3-24	Computer Programming Lab	Yes
1FY3-25	Manufacturing Practices Workshop	Yes
1FY3-26	Basic Electrical Engineering Lab	Yes
1FY3-27	Basic Civil Engineering Lab	Yes
1FY3-28	Computer Aided Engineering Graphics	Yes



JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

1FY3-29	Computer Aided Machine Drawing	Yes
1FY8-00	SODECA	Yes
2FY2-01	Engineering Mathematics-I	No
2FY2-02	Engineering Physics	No
2FY2-03	Engineering Chemistry	No
2FY1-04	Communication Skills	No
2FY1-05	Human Values	No
2FY3-06	Programming for Problem Solving	No
2FY3-07	Basic Mechanical Engineering	No
2FY3-08	Basic Electrical Engineering	No
2FY3-09	Basic Civil Engineering	No
2FY2-20	Engineering Physics Lab	Yes
2FY2-21	Engineering Chemistry Lab	Yes
2FY1-22	Language Lab	Yes
2FY1-23	Human Values Activities and Sports	Yes
2FY3-24	Computer Programming Lab	Yes
2FY3-25	Manufacturing Practices Workshop	Yes
2FY3-26	Basic Electrical Engineering Lab	Yes
2FY3-27	Basic Civil Engineering Lab	Yes
2FY3-28	Computer Aided Engineering Graphics	Yes
2FY3-29	Computer Aided Machine Drawing	Yes
1FY8-00	SODECA	Yes

  
Dr. Ruchi Mathur  
Dean First Year  
Dean First Year  
JECRC, Jaipur

Jaipur Engineering College and Research Centre, Jaipur

Department of Civil Engineering (2023-24)


Experiential Learning (Lab+ Theory) = 75.40%

S. No.	Subject Code	Subject Name	Experiential Learning (Project work/field work/Internship)
1	3CE2-01	Advanced Engineering Mathematics-I	NO
2	3CE1-02	Technical Communication	NO
3	3CE3-04	Engineering Mechanics	NO
4	3CE4-05	Surveying	YES
5	3CE4-06	Fluid Mechanics	YES
6	3CE4-07	Bulding Material & Construction	YES
7	3CE4-08	Engineering Geology	YES
8	3CE4-21	Surveying Lab	YES
9	3CE4-22	Fluid Mechanics Lab	YES
10	3CE4-23	Computer Aided Civil Engineering Drawing	YES
11	3CE4-24	Civil Engineering Materials Lab	YES
12	3CE4-25	Geolgy Lab	YES
13	3CE7-30	Industrial Training	YES
14	4CE2-01	Advance Engineering Mathematics -II	NO

15	4CE1-03	Managerial Economics & Financial Accounting	NO
16	4CE3-04	Basic Electronics for Civil Engineering Applications	NO
17	4CE4-05	Strength of Materials	YES
18	4CE4-06	Hydraulics Engineering	YES
19	4CE4-07	Building Planning	YES
20	4CE4-08	Concrete Technology	YES
21	4CE4-21	Material Testing Lab	YES
22	4CE4-22	Hydraulics Engineering Lab	YES
23	4CE4-23	Building Drawing	YES
24	4CE4-24	Advanced Surveying Lab	YES
25	4CE4-25	Concrete Lab	YES
26	5CE3-01	Construction Technology & Equipment's	NO
27	5CE4-02	Structural Analysis-I	NO
28	5CE4-03	Design of Concrete Structures	YES
29	5CE4-04	Geotechnical Engineering	YES
30	5CE4-05	Water Resource Engineering	YES
31	5CE5-11	Air & Noise Pollution and Control	NO
32	5CE5-14	Repair and Rehabilitation of Structures	NO
33	5CE4-21	Concrete Structures Design	YES

34	5CE4-22	Geotechnical Engineering Lab	YES
35	5CE4-23	Water Resource Engineering Design	YES
36	5CE7-30	Industrial Training	YES
37	6CE3-01	Wind & Seismic Analysis	NO
38	6CE4-02	Structural Analysis-II	NO
39	6CE4-03	Environmental Engineering	YES
40	6CE4-04	Design of Steel Structures	YES
41	6CE4-05	Estimating & Costing	YES
42	6CE5-12	Solid and Hazardous Waste Management	NO
43	6CE5-16	Geographic Information System & Remote Sensing	NO
44	6CE4-21	Environmental Engineering Design and Lab	YES
45	6CE4-22	Steel Structure Design	YES
46	6CE4-23	Quantity Surveying and Valuation	YES
47	6CE4-24	Water and Earth Retaining Structures Design	YES
48	6CE4-25	Foundation Design	YES
49	7CE4-01	Transportation Engineering	YES
50	7AG6-60.2	Environmental Engineering and Disaster Management	YES
51	7CE4-21	Road Material Testing Lab	YES
52	7CE4-22	Professional Practices & Field Engineering Lab	YES
53	7CE4-23	Soft Skills Lab	YES
54	7CE4-24	Environmental	YES

		Monitoring and Design Lab	
55	7CE7-30	Practical Training	YES
56	7CE7-40	Seminar	YES
57	8CE4-01	Project Planning and Construction Management	YES
58	8TT6-60.2	Disaster Management	NO
59	8CE4-21	Project Planning & Construction Management Lab	YES
60	8CE4-22	Pavement Design	YES
61	8CE7-50	Project	YES

  
 (HOD)  
 Head of the Department  
 Civil Engineering  
 JECRC Jaipur

**JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE, JAIPUR**  
**Department of Computer Science & Engineering**  
**Experience Learning (Theory Papers) 2023-24**

Course	Course code	Course Name	Experience Learning
U.G. Program in Computer Science & Engineering (SEM III)	3CS2-01	Advanced Engineering Mathematics	No
	3CS1-03/ 4CS1-03	Managerial Economics and Financial Accounting	No
	3CS3-04	Digital Electronics	Yes
	3CS4-05	Data Structures and Algorithms	Yes
	3CS4-06	Object Oriented Programming	Yes
	3CS4-07	Software Engineering	Yes
	3CS4-21	Data Structures and Algorithms Lab	Yes
	3CS4-22	Object Oriented Programming Lab	Yes
	3CS4-23	Software Engineering Lab	Yes
	3CS4-24	Digital Electronics Lab	Yes
U.G. Program in Computer Science & Engineering (SEM IV)	4CS2-01	Discrete Mathematics Structure	No
	3CS1-02/4CS1-02	Technical Communication	No
	4CS3-04	Microprocessor & Interfaces	Yes
	4CS4-05	Database Management System	Yes
	4CS4-06	Theory Of Computation	No
	4CS4-07	Data Communication and Computer Networks	Yes
	4CS4-21	Microprocessor & Interfaces Lab	Yes
	4CS4-22	Database Management System Lab	Yes
	4CS4-23	Network Programming Lab	Yes
	4CS4-24	Linux Shell Programming Lab	Yes
U.G. Program in Computer Science & Engineering (SEM V)	5CS3-01	Information Theory & Coding	No
	5CS4-02	Compiler Design	Yes
	5CS4-03	Operating System	Yes
	5CS4-04	Computer Graphics & Multimedia	Yes
	5CS4-05	Analysis of Algorithms	Yes
	5CS5-11	Wireless Communication	No
	5CS4-21	Computer Graphics & Multimedia Lab	Yes
	5CS4-22	Compiler Design Lab	Yes
	5CS4-23	Analysis of Algorithms Lab	Yes
	5CS4-24	Advance Java Lab	Yes
U.G. Program in Computer Science & Engineering (SEM VI)	6CS3-01	Digital Image Processing	Yes
	6CS4-02	Machine Learning	Yes
	6CS4-03	Information Security System	No
	6CS4-04	Computer Architecture and Organization	No
	6CS4-05	Artificial Intelligence	Yes
	6CS4-06	Cloud Computing	Yes
	6CS5-11	Distributed System	Yes
	6CS4-21	Digital Image Processing Lab	Yes
	6CS4-22	Machine Learning Lab	Yes
	6CS4-23	Python Lab	Yes
6CS4-24	Mobile Application Development Lab	Yes	
U.G. Program in Computer Science & Engineering (SEM VII)	7CS4-01	Internet of Things	Yes
	7AG6-60.1	Human Engineering and safety	No
	7CS4-21	Internet of Things Lab	Yes
	7CS4-22	Cyber Security Lab	Yes
	7CS7-30	Industrial Training	Yes
	7CS7-40	Seminar	Yes
U.G. Program in Computer Science & Engineering (SEM VIII)	8CS4-01	Big Data Analytics	Yes
	8EE6-60.2	Soft Computing (Elective)	No
	8CS4-21	Big Data Analytics Lab	Yes
	8CS4-22	Software Testing and Validation Lab	Yes
	8CS7-0	Project	Yes

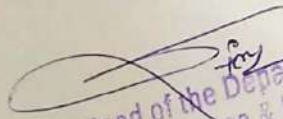
Semester	No. of Theory paper	Yes(Exp. Learn)
3	6	4
4	6	3
5	6	4
6	7	5
7	2	1
8	2	1

10


29

18

: Experience Learning = 62.00%


  
Head of the Department  
Computer Science & Engineering  
JECRC, Jaipur



 JECRC JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE	<b>Jaipur Engineering College and Research Centre,</b> <b>Shri Ram ki Nangal, via Sitapura RIICO</b> <b>Jaipur- 302 022.</b>	Academic Year <b>2023-24</b>
<b>Department of Electrical Engineering</b>		

**1.3.2.1:** Number of courses that include experiential learning through project work/field work/internship year wise during last five years.

S. No.	Department	15 - 16 (Number of Practicals)		EL from theory Subjects	
		Odd Sem	Even Sem	Odd Sem	Even Sem
1	EE (2020-2021)	13	10	10	11
Total		13	10	10	11

  
 Dr Prerak B. Bhatnagar  
 Head of the Department  
 Electrical Engineering  
 JECRC, Jaipur



JAIPUR ENGINEERING COLLEGE  
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**Jaipur Engineering College and Research Centre, Jaipur**

**Electrical Engineering Department (2023-24)**


**Experiential Learning (Lab+ Theory) = 83.01%**

Code	Subjects	Experiential Learning (Project work/field work/Internship)
3EE2-01	Advance Mathematics (AM)	No
3EE1-02	Technical Communication (TC)	No
3EE3-04	Power Generation Process (PGP)	Yes
3EE4-05	Electrical Circuit Analysis (ECA)	Yes
3EE4-06	Analog Electronics (AE)	Yes
3EE4-07	Electrical Machine - I (E/MC -I)	Yes
3EE4-08	Electromagnetic Field (EMFT)	No
3EE4-21	Analog Electronics Lab	Yes
3EE4-22	Electrical Machines-I Lab	Yes
3EE4-23	Electrical Circuit Design Lab	Yes
3EE7-30	Industrial Training	Yes
4EE2-01	Biology	No
4EE1-03	Managerial Economics And Financial Accounting (MEFA)	No
4EE3-04	Electronic Measurement & Instrumentation(Emi)	Yes
4EE4-05	Electrical Machine - II (EM/C-II)	Yes
4EE4-06	Power Electronics (PE)	Yes
4EE4-07	Signals & Systems (SS)	No
4EE4-08	Digital Electronics (DE)	Yes
4EE4-21	Electrical Machine - II Lab (EM/C-II Lab)	Yes
4EE4-22	Power Electronics Lab (PE Lab)	Yes
4EE4-23	Digital Electronics Lab (DE Lab)	Yes
4EE3-24	Measurement Lab (Mes. Lab)	Yes
5EE3-01	Electrical Materials (EM)	No
5EE4-02	Power System - I (PS-I)	Yes
5EE4-03	Control System (CS)	Yes
5EE4-04	Microprocessor (MP)	Yes
5EE4-05	Electrical Machine Design (EMD)	Yes
5EE5-11	Restructured Power System (RPS)	No
5EE4-21	Power System - I Lab	Yes
5EE4-22	Control System Lab	Yes



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5EE4-23	Microprocessor Lab	Yes
5EE4-24	System Programming Lab	Yes
5EE7-30	Industrial Training	Yes
6EE3-01	Computer Architecture (CA)	No
6EE4-02	Power System - II (PS-II)	Yes
6EE4-03	Power System Protection (PSP)	Yes
6EE4-04	Electrical Energy Conversion And Auditing (ECA)	Yes
6EE4-05	Electric Drives (ED)	Yes
6EE5-13	Electrical And Hybrid Vehicles (EHV)	Yes
6EE4-21	Power System - II Lab (PS-II Lab)	Yes
6EE4-22	Electric Drives Lab (ED Lab)	Yes
6EE4-23	Power System Protection Lab (PSP Lab)	Yes
6EE4-24	Modelling and Simulation Lab (M & S LAB)	Yes
7EE5-11	Wind & Solar Energy System	Yes
7CE6.60.1	Environmental Impact Analysis	Yes
7EE4-21	Embedded Systems Lab	Yes
7EE4-22	Advance Control System Lab	Yes
7EE7-30	Industrial Training	Yes
7EE7-40	Seminar	Yes
8EE4-11	HVDC Transmission System.	Yes
8AG6-60.1	Energy Management	Yes
8EE4-21	Energy Systems Lab	Yes
8EE7-50	Project	Yes

  
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Electrical Engineering  
JECRC Jaipur



JAIPUR ENGINEERING COLLEGE  
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Jaipur Engineering College and Research Centre, Jaipur

Information Technology Department (2023-24)

Experience Learning (Lab+ Theory) =81.8 %

Code	Subjects	Experience Learning(Project work/field work/Internship)	
3IT2-01	Advanced Engineering Mathematics	NO	
3IT1-03	Managerial Economics and Financial Accounting	NO	
3IT3-04	Digital Electronics	NO	
3IT4-05	Data Structures and Algorithms	YES	
3IT4-06	Object Oriented Programming	YES	
3IT4-07	Software Engineering	YES	
3IT4-21	Data Structures and Algorithms Lab	YES	
3IT4-22	Object Oriented Programming Lab	YES	
3IT4-23	Software Engineering Lab	YES	
3IT4-24	Digital Electronics Lab	YES	
3IT7-30	Industrial Training	YES	
4IT2-01	Discrete Mathematics Structure	NO	
4IT1-02	Technical Communication	NO	
4IT3-04	Principle of Communication	NO	
4IT4-05	Database Management System	YES	
4IT4-06	Theory of Computation	NO	
4IT4-07	Data Communication and Computer Networks	YES	
4IT4-21	Linux Shell Programming Lab	YES	
4IT4-22	Database Management System Lab	YES	



4IT4-23	Network Programming Lab	YES	
4IT4-24	Java Lab	YES	
4IT4-25	Web Technology Lab	YES	
5IT3-01	Microprocessor And Interfaces	NO	
5IT4-02	Compiler Design	YES	
5IT4-03	Operating System	YES	
5IT4-04	Computer Graphics & Multimedia	YES	
5IT4-05	Analysis of Algorithms	YES	
5IT5-12	Software Testing and Project Management	YES	
5IT4-21	Computer Graphics & Multimedia Lab	YES	
5IT4-22	Compiler Design Lab	YES	
5IT4-23	Analysis of Algorithms Lab	YES	
5IT4-24	Advanced Java Lab	YES	
5IT7-30	Industrial Training	YES	
6IT3-01	Digital Image Processing	YES	
6IT4-02	Machine Learning	YES	
6IT4-03	Information Security System	YES	
6IT4-04	Computer Architecture and Organization	NO	
6IT4-05	Artificial Intelligence	YES	
6IT4-06	Distributed System	YES	
6IT5-13	Ecommerce & ERP	YES	
6IT4-21	Digital Image Processing Lab	YES	
6IT4-22	Machine Learning Lab	YES	
6IT4-23	Python Lab	YES	



JAIPUR ENGINEERING COLLEGE  
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6IT4-24	Mobile Application Development Lab	YES	
7IT4-01	Big Data Analytics	YES	
7CE6-60.1	Environmental Impact Analysis	YES	
7IT4-22	Cyber Security Lab	YES	
7IT4-21	Big Data Lab	YES	
7IT7-30	Industrial Training	YES	
7IT7-40	Seminar	YES	
8IT4-01	Internet of Things	YES	
8TT6-60.1	Material Human Resource & Development	NO	
8IT4-21	Internet of Things Lab	YES	
8IT4-22	Software Testing and Validation Lab	YES	
8IT7-50	Project	YES	

(HOD)

Dr. Smita Agarwal

Head of the Department  
Information Technology  
JECRC, Jaipur



JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

Jaipur Engineering College and Research Centre, Jaipur

Mechanical Engineering Department (2023-24)

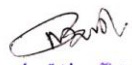
**Experience Learning (Lab+ Theory) =77.77%**

Code	Subjects	Experience Learning(Project work/field work/Internship)	
3ME2-01	Advance Engineering Mathematics-I	NO	
3ME1-03	Managerial Economics and Financial Accounting	NO	
3ME3-04	Engineering Mechanics	NO	
3ME4-05	Engineering Thermodynamics	NO	
3ME4-06	Materials Science and Engineering	YES	
3ME4-07	Mechanics of Solids	NO	
3ME4-21	Machine drawing practice	YES	
3ME4-22	Materials Testing Lab	YES	
3ME4-23	Basic Mechanical Engineering Lab	YES	
3ME4-24	Programming using MATLAB	YES	
3ME7-30	Industrial Training	YES	
4ME2-01	Data analytics	YES	
4ME1-02	Technical Communications	NO	
4ME3-04	Digital Electronics	NO	
4ME4-05	Fluid Mechanics and Fluid Machines	NO	
4ME4-06	Manufacturing Processes	YES	
4ME4-07	Theory of machines	NO	
4ME3-21	Digital Electronics lab	YES	
4ME4-22	Fluid Mechanics lab	YES	
4ME4-23	Production practice lab	YES	
4ME4-24	Theory of machines Lab	YES	
5ME3-01	Mechatronic Systems	YES	
5ME4-02	Heat Transfer	YES	
5ME4-03	Manufacturing Technology	YES	
5ME4-04	Design of Machine Elements I	YES	
5ME4-05	Principles of Management	NO	
5ME5-12	Automobile Engineering	YES	
5ME3-21	Mechatronic Lab	YES	
5ME4-22	Heat Transfer lab	YES	
5ME4-23	Production Engineering Lab	YES	



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5ME4-24	Machine Design Practice I	YES	
5ME7-30	Industrial Training	YES	
6ME3-01	Measurement and Metrology	YES	
6ME4-02	CIMS	YES	
6ME4-03	Mechanical Vibrations	NO	
6ME4-04	Design of Machine Elements II	YES	
6ME4-05	Quality Management	NO	
6ME5-11	Refrigeration and Air Conditioning	YES	
6ME4-21	CIMS Lab	YES	
6ME4-22	Vibration Lab	YES	
6ME4-23	Machine Design Practice II	YES	
6ME4-24	Thermal Engineering Lab I	YES	
7ME5-11	I.C .Engine	YES	
7EE6-60.2	Power generation sources	YES	
7ME4A-21	FEA Lab	YES	
7ME4A-22	Thermal Engineering Lab-II	YES	
7ME4-23	Quality control Lab	YES	
7ME7-30	Industrial Training	YES	
7ME7-40	Seminar	YES	
8ME5-13	Additive Manufacturing	YES	
8MI6-60.2	Maintenance Management	YES	
8ME-21	Industrial Engineering Lab	YES	
8ME-22	Metrology Lab	YES	
8ME7-50	Project	YES	

  
Head of the Department  
Mechanical Engineering  
JECRC, Jaipur



JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE, JAIPUR  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
EXPERIENTIAL LEARNING DATA FOR SESSION (2023-24)

S. No.	Semester	Subject/Lab Name	Subject/Lab Code	Experiential Learning
1	III	Advanced Engineering Mathematics-I	3EC2-01	No
2		Technical Communication	3EC1-02	No
3		Digital System Design	3EC4-04	Yes
4		Signal & Systems	3EC4-05	Yes
5		Network Theory	3EC4-06	Yes
6		Electronics Devices	3EC4-07	Yes
7		Electronics Devices Lab	3EC4-21	Yes
8		Digital System Design Lab	3EC4-22	Yes
9		Signal Processing Lab	3EC4-23	Yes
10		Computer Programming Lab-I	3EC3-24	Yes
11		Industrial Training	3EC7-30	Yes
12	IV	Advanced Engineering Mathematics-II	4EC2-01	No
13		Managerial Economics and Financial Accounting	4EC1-03	No
14		Analog Circuits	4EC4-04	Yes
15		Microcontrollers	4EC4-05	Yes
16		Electronics Measurement & Instrumentation	4EC3-06	Yes
17		Analog and Digital Communication	4EC4-07	Yes
18		Analog and Digital Communication Lab	4EC4-21	Yes
19		Analog Circuits Lab	4EC4-22	Yes
20		Microcontrollers Lab	4EC4-23	Yes
21	Electronics Measurement & Instrumentation Lab	4EC4-24	Yes	
22	V	Computer Architecture	5EC 3-01	Yes
23		Electromagnetic Waves	5EC4-02	Yes
24		Control System	5EC4-03	Yes
25		Digital Signal Processing	5EC4-04	Yes
26		Microwave Theory & Techniques	5EC4-05	Yes
27		Satellite Communication	5EC5-14	Yes
28		RF (Radio Frequency) Simulation Lab	5EC4-21	Yes
29		Digital Signal Processing Lab	5EC4-22	Yes
30		Microwave Lab	5EC4-23	Yes

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Electronics & Communication Engineering  
JECRC, Jaipur

31		Industrial Training	5EC7-30	Yes
32	VI	Power Electronics	6EC3-01	Yes
33		Computer Network	6EC4-02	Yes
34		Fiber Optics Communications	6EC4-03	Yes
35		Antennas and Propagation	6EC4-04	Yes
36		Information Theory and Coding	6EC4-05	Yes
37		Introduction to MEMS (Micro-Electro Mechanical Systems)	6EC5-11	Yes
38		Computer Network Lab	6EC4-21	Yes
39		Antenna and wave propagation Lab	6EC4-22	Yes
40		Electronics Design Lab	6EC4-23	Yes
41		Power Electronics Lab	6EC4-24	Yes
42	VII	VLSI design	7EC5-11	Yes
43		Environmental Engineering and Disaster Management	7AG6-60.2	No
44		VLSI Design Lab	7EC4-21	Yes
45		Advance communication lab (MATLAB Simulation)	7EC4-22	Yes
46		Optical Communication Lab	7EC4-23	Yes
47		Industrial Training	7EC7-30	Yes
48		Seminar	7EC7-40	Yes
49	VIII	Digital Image and Video Processing	8EC5-12	Yes
50		Disaster Management	8TT6-60.2	No
51		Internet of Things (IOT) Lab	8EC4-21	Yes
52		Skill Development Lab	8EC4-22	Yes
53		Project	8EC7-50	Yes

<b>Experiential Learning Summarized for Session 2023-24</b>	
<b>NO. OF SUBJECTS HAVING EXPERIENTIAL LEARNING</b>	<b>47</b>
<b>TOTAL NO. OF SUBJECTS</b>	<b>53</b>
<b>% SUBJECTS FOR EXPERIENTIAL LEARNING</b>	<b>88.68%</b>

  
Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur