



JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

INTERNAL AUDIT CORRECTION REPORT

Department of Electronics & Communication Engineering

DQAC	1) Dr. Sandeep Vyas 2) Dr. S. K. Singh 3) Dr. Vinita Mathur 4) Dr. Parul Tyagi 5) Dr. Girraj Sharma	DATE	11.06.2022
PROCESS	Academic Process		
Auditors	Dr. Sanjay Gaur Program Coordinator (Dept. of Computer Science Engineering)	Auditees	Department of Electronics & Communication Engineering
Observers	Dr. S. S. Manaktala (Associate Professor, ECE Dept.) Dr. Vijeta Kumawat (Associate Professor, CSE Dept.)		

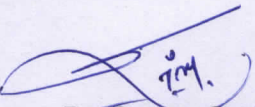
Academic year 2021-22

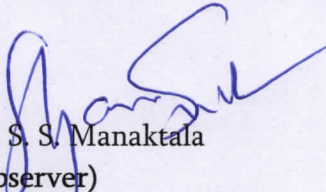
S. No.	Observation	Status	Correction
1	All Academic Process	Complete	Map the activities with POs and COs so as to achieve the objectives defined in PEOs. And identify the areas which need to be addressed in planning for the next academic session.
2	Course File	Complete	All course-files need to be made available in department library so that student's performance subject-wise can be evaluated and also to learn from the results and plan the next time catering all shortcomings.
3	PO and PEOs and CO and PSO's	Complete	Every year, the COs of all subjects need to be discussed in department so as to come-up with any modifications needed and plan every course with its curriculum gap as per industry requirements.
4	Mapping	Complete	Mapping of all activities along with curriculum and beyond-curricula to the Program Objectives need to be done in a manner to identify new methodologies to propose for achievement of vision and mission of the institute in upcoming sessions.
5	Student Feedback Analysis Index	Complete	Feedback-Summary report for every subject need to be discussed by DQAC to come up with a solution-plan that must be executed timely within the remaining


			session so that its effects can be seen in university-results as well as student-satisfaction.
6	Industry Feedback Analysis Index	Complete	For improving the placements, Industry feedback must be taken for their requirements and where exactly the students are as per the curricula. Targeted action must be planned so that desired technologies can be taught and any internships in this regard can be planned.
7	Alumni Feedback Analysis Index	Complete	Interaction meetings shall be carried out as per a scheduled program, fulfilling the motive to achieve placement guidance sessions as well as training sessions. Attendance to be made compulsory and Indemnity forms must be taken by students who are not interested in attending these sessions.
8	Remedial Lectures/Mentoring File	Complete	With respect to every grievance through mentorship assistance, remedial measures must be shared with a scheduled program through some notice and summary of every lecture/activity in this regard must be maintained. Also, outcome must also be done on some test and evaluation basis.
9	Advance Learners	Complete	For associating advance learners, Faculties must be identified along with activities for prior planning of events and a tentative schedule must be shared with authorities and tracking for execution as well as outcomes must also be maintained.
10	Slow Learners' Efforts Taken	Complete	Slow learners must be motivated first to get their subjects passed with some extra lectures for solving the RTU papers and some model question papers. Second planning must be for the final year students to get them placed at least in one company before appearing for final exams. Plan for these two must be shared with authorities in start of every semester.
11	Add-On Courses	Complete	Add-On courses must be planned with an objective to get each and every student of the department get placed by equip them with all the knowledge of technologies-in-demand in companies/industries. For the same, Requirement analysis and training program must be planned for throughout the session with regular in-between mock-evaluations.
12	Seminars/Guest Lectures	Complete	Outcome of seminars and guest lectures must be mapped with program outcomes. Attendance to be made compulsory and some activities must be planned after every session in order to explore more on the topics/technologies/ideas discussed.
13	Social Activities/ Ethical/ Moral Value Education	Complete	Values has to imparted through a variety of practical sessions where students can learn our society, its linkage, necessity, moral aspects and the responsibilities. Eco-system needs to be taught through

			variety of activities and report for the same shall be maintained.
14	Higher Education Data	Complete	Students who have got their selection even after passing-out from college need to be tracked by the SDO in coordination with Alumni office so as to get updated with the numbers and the institutions and kind of studies they are presently into.
15	Internship Data	Complete	Students must be provided with a list of technologies to get insight of and companies where they can be well trained so as to equip well for Placement ahead. In-house internship must be encouraged in order to achieve a targeted plan for preparing them for future Year-wise plan must be prepared well before start of semester and at the end Technology-wise data shall be maintained.
16	Student Final Year Project	Complete	List of Projects, as per various problems defined by government through Hackathons, DST; etc., must be proposed by the department along with Guides in prior and students need to work throughout the year to carry-out the tasks so as to submit them as a solution for the problems. This can generate an opportunity to showcase the talent-pool and get the funds for patent-level projects.
18	All Files (Sample Tested)	Complete	All files submitted to the department must be checked for formatting as well as correctness and completeness of the data asked for. Tagging must also be done so as to provide quick-access. Department must assign the task to get all files verified by one or two designated faculty for the same.
19	Previous Students' Punched Old Files, Exam Record	Complete	At least 5 set of checked practical notebooks/files, Assignment sheets, Seminar reports, Project reports, etc. and Mid-Term Examination sheets and End-term Practical Examination sheets of current and previous academic year must be there with the department.
20	Existing Submission	Complete	All the data in soft-copy must also be uploaded on google drive after getting it verified from DQAC. And a final report of the same must be submitted to the authorities.
21	Training needed Identification Teaching, Non-Teaching	Complete	Planning of some trainings and workshops for faculty and technical staff and that too before commencement of new session and areas to be taken care of along with outcome to achieve must be made and submitted to authorities. Every semester faculty and technical staff must attend at least 2 such activities and department ensure their presence by possible alterations in timetable wherever desired.
22	Budget	Complete	In the end of every semester, requirement analysis must

			be done for every lab in the department with proper audit and the same in prescribed format must be submitted on time to authorities, in order to keep the upcoming labs updated and with all equipment, kits, components whether hardware or software, etc. available there.
23	Library Details	Complete	In every semester, Department must prepare list of books, journals, magazines and other texts that are required for students and faculty by collecting the requirement from faculty/technical staff to cover next semester subjects, laboratories and any co-curricular activity. Soft-copy of available texts in department library as well as college library must be made available to every student and faculty as a link or file.
24	FDP/Publications	Complete	Department must provide a list of FDPs and conferences to be held in upcoming academic year to all faculty so as improve awareness. After completing every FDP, faculty must be asked to submit a summary report to the department. In case of publications/ Patent/ Project/ Webinar/ Seminar, faculty must submit certificate of participation along with the front page of the paper presented/Summary report of Patent/ Project/ Webinar/ Seminar. File of the same must be available in department.
25	Curricular and Co-Curricular Activities	Complete	Academic Calendar must include all the curricular and Co-Curricular activities with names of coordinators. After completion of every such event, summary report with all certificates and photographs must be available in department in soft-copy. Outcome of these activities must also be made clear to students so that they can be motivated for large number of participations with full enthusiasm.


 Dr. Sanjay Gaur
 (Auditer)
 Program Coordinator
 Computer Science Dept.

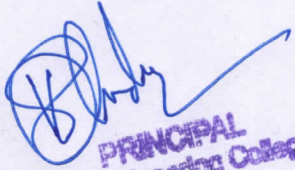

 Dr. S. S. Manaktala
 (Observer)
 Associate Prof., ECE Dept.


 Dr. Vijeta Kumawat
 (Observer)
 Associate Prof., CSE Dept.


 Head of the Department
 Electronics & Communication Engineering
 Program Coordinator

Electronics & Communication Engineering

Principal


 PRINCIPAL
 Jaipur Engineering College &
 Research Centre
 D. S. Road, Jaipur-302022



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Department of Electronics & Communication Engineering

Format for Academic Audit (2021-22)

Name of the Department: Electronics & Communication Engineering

Date: 15.06.2022

Name, Designation and Address of Academic Audit Experts:

- Name:** Mr. Sachin Atray
Designation: Branch Head
Affiliation: Numeric UPS, Jaipur
- Name:** Dr. Paresh Vyas
Designation: Professor and Head
Affiliation: Department of Mathematics
University of Rajasthan, Jaipur

Members of Staff Present:

1. Dr. Sandeep Vyas
2. Dr. S. K. Singh
3. Dr. Vinita Mathur
4. Dr. Parul Tyagi
5. Dr. S. S. Manaktala
6. Dr. Giriraj Sharma
7. Dr. Ashutosh Sharma

Criterion	Items	Verification Yes / No	Comments	Suggestions for improvement
1. Curriculum	Steps followed in the designing of Syllabus & Curriculum	Yes	RTU affiliated college so syllabus and curriculum are designed by Rajasthan Technical University	Suggestion letters must be sent to the university for any amendment and correction in curriculum if suggested by IQAC with regular discussions with DQAC members.

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	Contents of the Curriculum	Yes	As per the suggestions of Department Quality Assurance Committee, additional topics included in every to fill the gap between Industry needs and Institutional teaching.	Classified persons from other institutions and industries can be approached to suggest content to be added as per the current industry need.
	Validation Done	Yes	Curriculum design and dissemination is verified with course-plan and CO-PO mapping.	Every lecture must start with what previously taught so that the link can be formed with and also in the end, what to be discussed in next lecture shall also be included with its significance. Also, areas where that study is in actual use in physical world must be included.
	Credits Allotted / Distribution-Logic	Yes	Break-up of marks for Term examinations (Theory as well as Practical) is based on CO analysis and is done by Subject-faculty under guidance of DQAC.	Adopted scheme is helpful but must be given some marks on the basis of Projects done relevant to every subject to promote application-based learning.
2. Curriculum Transaction	Teaching Methods &	Yes	Along with the regular Classroom teaching through	Open Book Exams and Library utilization-based

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	Teaching Aids		chalk-board, various other methods are also utilized for imparting effectiveness to deliver the contents e.g., Presentations, Video lectures, Co-Teaching and also with use of Online methods are also used e.g., WebEx /Zoom /Google Classroom etc. with the help of e-content, webinars etc.	learning is effective method for providing Application of concept-teaching, it must be promoted.
	E-learning Modules	Yes	Content from NPTEL/ Swayam/ YouTube Video Lectures, etc. are included in every subject for up-level understanding of the topics.	Live sessions through Expert faculties from other universities and experts from Industry must be included.
	Project Work UG/PG	Yes	40 Projects in IV year under curriculum and approximately 30 projects including approx. 150 students have submitted their ideas as IOT and Embedded based Projects after getting training from UpFlair	Level of Hardware projects of IV year is not very good. They must include the utilization of current and advanced technologies and languages. Also, some DST based or Govt. funding projects must be grabbed so that upper level of work can be made reality.

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	Internal Assessment Components - Uniqueness	Yes	Mid-term papers are CO-based and the evaluation justifies the performance to be judged on every component so that Program Outcomes and subsequently Program Educational Objectives can be achieved effectively.	Practical learning-based questions must be given a separate credit so that the students are evaluated as per their practical applicability approach.
	Student Support - Remedial Coaching	Yes	Faculty Coordinators for every section and Faculty Mentor on every student (in a group of 20 students) is there to take care of student's performance for educational concepts, Skill improvement and Personal upliftment.	All grievance related to any kind whether Study related, Career related, Motivation related or Personal must be maintained with every student coordinator or mentor so as to keep a track of individual performance in all aspects.
	Parents Open House Meeting- Evaluation of Student's Progress	Yes	Every semester 1 parent-teacher meeting is conducted to inform the parents about the progress of student and to ask for any suggestions they want to give for any improvement	Mentor-Parents meetings are too less, they have to be increased so as to keep parents aware of student performance so that in between semesters they get ample time to improve on them.


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			in the process adopted.	
	Feedback from Students	Yes	Students give their feedback on delivery of topics; related problem resolve and suggestion handling is coordinated by mentors and also taken through feedback-form filling.	Grievance Report and supportive measures provided shall be maintained in hard-copy.
	Steps taken on the Feedback	Yes	Concerned issues that have come-up through PTMs and Student Feedbacks are put to DQAC and as per the suggestion, action plan is executed.	Support system and addressing of the feedback issues is not very clear. It shall be well documented with valid proofs.
3. Faculty Profile	Projects Completed /On Going	Yes	A total of 9 Patents on various technological advancements are there with the department faculty for session 2021-22.	A USP for the department. It is time to work on some funded government research projects and prove your expertise there too.
	Seminars/ Conferences Attended	Yes	29 International conferences have been attended by faculty. One national conference is attended by every faculty here in college. Many	Good number in terms of international conferences. Need to put some support system by department so that it can benefit Faculty in attending Seminars and Talks in

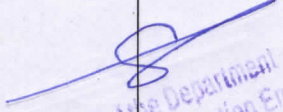

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			webinars are attended by faculty.	physical outside Rajasthan too.
	Papers/ Articles/ Books Published	Yes	29 papers in international conferences/Journals are published by faculty. One Book with ISBN number have been also published by faculty. 55 Papers in National conference have been published by faculty.	Good number of leveled Papers but faculty must be motivated to write books of a variety of subjects with good publishers.
	FDP/ RC/ OC/ Training Program/ Workshop	Yes	Every faculty have participated in Online FDPs and workshops (59 in all)	Almost all FDPs and workshops have been done in Online mode. A financial support system shall be there so that faculty can attend good workshops on trending technologies in Physical mode so that its learning can benefit other staff and students.
	Preparation of E-learning Materials / Content	Yes	PDFs, PPTs, Videos of subject-topics and videos of lab-experiments, etc. are there for students on JECRC portal.	Faculty shall prepare the topics in PPT form so that Chalk-duster mode can be reduced and the majority of studies can be done through electronic mode, it will reduce the time to deliver. And the time so extracted be utilized in


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				application-based learnings; open book exams, project-based learnings, etc.
	Acted as Resource Persons	Yes	Faculties as a resource person served as Examiners/ conference Chairs/ for Expert Lectures etc.	Faculty engaging themselves to other institutions and industries is very less in number. It suggests that department faculty are not in touch with outside world and not capable of sharing their expertise and subsequent learning.
4. Profile of Students	Demand Ratio (Applications Received versus Sanctioned Strength)	Yes	565/720	Demand Ratio after calculation comes out to be 78.5% which is very less. Department shall have the reasons for non-filling and strategy for filling up to 100% which is missing.
	Students Involvement in Extra-Curricular & Co-Curricular Activities	Yes	All students have participated in various activities in multiple events/activities like Webinars, Invited Talks (191 students), Workshops (280 students), Project exhibition (130 students with 34 projects), conferences (330	Most of the student participation is in-campus. It does not reflect the real competitiveness among students or it also suggests that students are hesitant to participate outside and needs lot of motivation and support-system to showcase their skills.


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			students), Add-on courses (458 students), technical events (400 students), and many more to showcase their technical/non-technical skills and to enhance and polish themselves, throughout the session 2021-22.	
	Study Tour/ Industrial Visits/ Exhibitions/ Internship/ Trainings	Yes	Students as Interns attended trainings in variety of companies to get insight of various technologies/fields. The numbers are: 180 (2 nd year), 223 (3 rd year) and 155 (4 th year).	Reports for every internship attended by students shall be there with the department so that formal documentation can be learned. Also, there isn't any Industrial Tour or Visit, which is an essential component in getting the experience of work-culture, ethics and applicability of the theory subjects defined in curriculum.
	Achievements	Yes	Students have performed very well in inter-department competitions in-campus and some more achievements are there in Inter-college competitions held	Students of the department shall motivate to be updated with the events and for participation. Also add the students in variety of technical-groups to track and prepare a strategy for

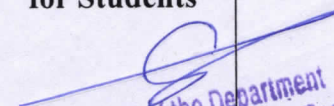

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			in a variety of technical as well as co-curricular and extra-curricular activities.	this.
5. Infrastructure in the Department	No. of Classrooms	Yes	9 Lecture Theatres for 10 Sections	Number of lecture rooms are sufficient but as the time is changing, so there is need to have smart-classrooms with all supporting equipment.
	No. of Laboratories	Yes	10 Branch specific Laboratories, 3 Computer Laboratories and 2 additional Laboratories for Club activities	Smart boards and Virtual lab facilities shall be introduced. For club activities, more fund be provided as it can enhance the facilities which in-turn result in developing advanced real-time projects.
	No. of Computers - for Teachers	Yes	Each lab has 4 computer systems dedicated for use of faculty. Additional facilities for faculty include Wi-Fi, printers and scanner.	Number of computer systems in each lab is sufficient but they shall be upgraded in terms of RAM, operating system, software, etc.
	No. of Computers - for Students	Yes	A total of 72 plus computer systems are there which are distributed among 3 Computer Labs with 24 systems in every lab. All PCs are installed with windows and other	Number of computer systems in each lab is sufficient but they shall be upgraded in terms of RAM, operating system, licensed software, etc.


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			required software with LAN connectivity. Additional computer systems are there in state-of-art labs with interfacing facilities.	
	No. of Computers - Research Scholars	Yes	PCs dedicated to faculty have been utilized by them for their research work too as they are equipped with additional software required for the purpose.	Number of computer systems for research work is sufficient but they shall be upgraded in terms of RAM, operating system, licensed software, etc. LaTeX must be installed. Advanced trainings shall also be provided to faculty.
	No. of Instruments	Yes	Every laboratory has required number of Instruments so as to execute all the university defined experiments in a group of 3 or 4 students. Almost all laboratories have additional Instruments so that experiments other than curriculum can also be performed.	In majority of laboratories, Instruments and equipment are not updated, need to purchase new Instruments.
6. Activities of the	MoUs signed	Yes	An MOU is signed with "UpFlair" for Embedded and IOT	Need to sign these MOUs to exist for long term in years.

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Department			related Trainings and a Project-exhibition has also conducted in this session. Another MOU is with Elsevier for International Conference.	And more activities be planned in variety of areas not limiting to project making. Also, MOUs related to some research work shall also be signed with some good organization.
	Consultancy	Not Available	Due to physical classes continuing after corona-time, faculty were much engaged with students and other assignments that is why faculty of the department was not much involve in this.	In spite having a rich knowledge base with the department, if they are not trying for making themselves available for the society, it is not a good practice. Faculty must make their way and extract some time for this domain too as it will benefit them in their growth as well as relation with professional groups.
	Collaborations	Yes	Department has collaborated with UpFlair, a centre for Research and Product development. Here, in collaboration with the centre, department have provided an opportunity to learn and exercise on novel tools and come-up with applications in problem-solving	Collaboration with UpFlair proved to be a great initiative in enriching the students with upgrading themselves on tool-handling for project development and the project-competition under this had very good execution of ideas.


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			through projects.	
	Association Meetings	Yes	Associations are there for conferences in department Optica Student chapter and IETE Student chapter.	Associations are well but there is not much of activities which can prove its utility in students' perspective.
	Guest lectures	Yes	A large number of webinars approx. 15, expert-talks and guest-lectures (Approx. 10) were there in this session delivered on a vast range of topics related to technical advancement.	Efforts were good, but number of physical activities e.g., seminars, expert lectures, workshops must be increased. Also, experts from other renowned institutions and industries be approached to speak on latest technologies in use there and about familiarizing the students with work-culture.
	Conference/ Seminar/ Workshop Conducted	Yes	1 National Conference with 55 papers and 1 International Conference with 45 papers, 2 Invited talks, 2 Workshops, 3 Add-on courses, 1 FDP and 4 Technical events are conducted by the department.	Very impressive figures that shows the department's skill but still a lagging is there in output as after having such activities, still the students' participation outside college is very less in showcasing technical skills. Also, activities must have some vision with respect to either enhancing the students or the faculty.


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	Extension Activity	Yes	Many extension activities have been executed during the session 2021-22 such as Engineer's Day celebration, Teacher's Day celebration, Hindi-Divas, Women's Day celebration, International Yoga Day, Blood donation camp, Tree plantation, etc.	Initiatives to serve the society by being with them is missing. Department must plan and execute various separate activities so that their standalone participation can be entitled. Activities can also be planned in schools for awareness and knowledge enhancement and career guidance as well as helping them to deliver good projects at school level.
	Interaction with Industry/ Research Centres/ Educational Institutions	Yes	Industry personal for Expert lectures, Course content designing and For Placements related	Continuous interactions and involvement are not there which can be encouraged. Interactions must cover all the aspects of education, engineering, career ahead, industrial exposure, work culture there, how to plan their future, etc.
	Newsletters/ Magazine	Yes	One newsletter in both semesters named "Ujjwalam" is released which showcase the conducted activities, student and faculty participation and	Newsletter every semester emphasising on activities conducted only. It must rather relate with what has gained and to whom it served. Also, it shall be informative also on

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			achievements.	technological advancements in world, preparation after graduation, preparation for placements, competitive exams, some meditation aspects, etc. so that every student and faculty wait for its release and can extract something that help them all.
	Placement	Yes	113 Out of 155 students (65%)	More than 70 % placement is a good percentage with average package of lac per annum but need some more efforts to bring this percentage to approach 100%.

Please comment on SWOT Analysis:

Strength:

- Knowledge base in terms of faculty members and technical staff is very good, active and enthusiastic in delivering the content in effective ways and also in improving the student's performance as well as motivating them to access the opportunities.
- Methodology adopted for identifying the gap areas and effective delivery of curriculum along with the beyond curriculum topics along with current technologies and other general aptitude to equip the students with ample diversified knowledge that can help them in their career as well as in their results.
- Course-plan, Examinations and Evaluation is based on achieving the course outcomes that is very advantageous in letting the students aware of the applications and prepare themselves for competitive environment.
- Students are encouraged to participate in variety of activities e.g., Hackathon, Project-competitions, conference Paper writing, etc. to enhance their abilities of applicability of aspects learned and professional content writing is much appreciable.

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Weakness:

- Faculty are less in interaction with outside world and due to the same, they lag in updating themselves towards technological advancements, latest tools, Research areas and also linkage with professional societies and faculty.
- Students outside participation is also very less which is a much required so as to establish a student-exchange relationship for mutual learning, technology access, applying the skill-set and come-up with some product development.

Opportunities:

- Having an ample resource of knowledgeable faculty, the department must capture the government funded projects to work upon which can be a highlight.
- Department must motivate the students as well as faculty on financial ground and also in providing facilities for external participation in skill utilization and enhancement.
- Students can be associated with some companies and industries as interns for long duration during their graduation where they can learn professional ethics and technologies that are in current use there.
- Department must sign some MOUs related to exchange programs with other eminent universities and some industries for providing trainings, internships and placements further.

Challenges:

- To upgrade the laboratories not only to cater the curriculum needs but to impart research aptitude through modern tool-utilization.
- Students must be prepared through additional workshops to be perfect enough technically, communication-wise, personality-wise and professional attitude-wise, to be competent enough for placements, higher education, competitive examinations and other areas after successfully graduating from the college, right from the first year of engineering.

Best Practice(s) / Innovations of the Department:

- Writing papers by students for conference on their projects.
- Preparing the final year students with dedicated classes, practice-tests, personality development activities and mock interviews for placements.


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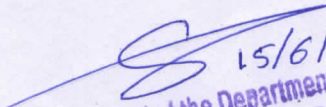
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Future of the Department:

- With 550 plus students and 40 plus faculty and technical staff, Department of Electronics & Communication Engineering is heading towards reaching new heights in placing the students in elite companies, improving the results, delivering the courses with effective methods of teaching-learning by identifying the gaps and catering them through approach of outcome-based education.
- Department has started to involve the students by associating them with faculty mentors to work in direction of research, project development and content writing which in no time surely lead the department to grab funded projects, to publish good student papers and to get patents based on their efforts in innovation.
- Department is planning to associate faculty along with student-groups for Student and faculty exchange programs, project and product development, information-sharing and counselling programs with schools, cultural and social associations with society through some programs, consultation services to external entities and collaborations with companies and industries; all these will undoubtedly put the department on front foot and able to be recognised as a leader globally on technological, professional and social ground.

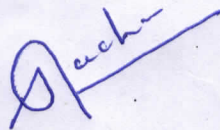
Signature of the HOD with Seal


15/6/2022
Head of the Department
Electronics & Communication Engineering
JECRC, Jaipur

Signature of the Academic Audit Experts


1. Name: SACHIN ATRAY


Signature:



2. Name: Prof. Ramesh Vyas

Signature:


Professor & Head
Department of Mathematics
University of Rajasthan
Jaipur


PRINCIPAL
Jaipur Engineering College &
Research Centre
Tonk Road, Jaipur-302022