

*“Education is not the learning of facts, but the Training of mind to think”*  
- Albert Einstein



# अभियांत्रिकी महाविद्यालय बीकानेर ENGINEERING COLLEGE BIKANER

(An Autonomous Institution of Government of Rajasthan)

Pugal Road, Karni industrial area, Bikaner, Rajasthan – 334004

## Department of Electronics and Communication Engineering



<http://ecb.ac.in/department/ec.php>



# Department of Electronics and Communication Engineering

## ABOUT THE INSTITUTE

The Govt. Engineering College Bikaner, established in 1999. The college is a renowned institution in the field of Engineering, Management and Polytechnic education. 4000 students are presently studying in the college. College possesses 337 bighas of land on which construction work has been accomplished on 3 lac square feet. 4 colleges viz. Govt. Engineering College Bikaner, Govt. College of Engineering & Technology, Govt. ECB Polytechnic and Govt. ECB ITI are running under Engineering College Bikaner society. The college runs the courses like BTECH, MTECH, MBA, MCA, M. Sc. (IT), BBA, BCA, Diploma and ITI. The college is also running research centre for Ph.D in management and Electrical Engineering department. Result oriented committed 200 Faculty Members, 100% results, Excellent Placement, Centre for Ethics and Indian Management, World class Ceramic Centre, magnificent computer laboratories, gymnasium, cafeteria etc are salient features of this college.



**Principal Message:** I would like to congratulate department of electronics and communication for releasing brochure. Department of ECE is oldest and well equipped with advanced laboratories. Department have well qualified team of intellectual young faculty members and their consistent efforts makes department to meet needs of emerging and advanced technologies I feel proud on research environment in the department.

Besides formal teaching, character building and life encouraging positivity drives this department far apart. Strong alumni network and placement of alumni at renowned industries encourages students of department to work with high energy. During NBA visit department of ECE performed best at institute level. My best wishes to department for continuous growth in coming next decades.

**Dr. Jaiprakash Bhamu**





# Department of Electronics and Communication Engineering

## WELCOME TO THE DEPARTMENT

The department of Electronics and Communication Engineering of Engineering college Bikaner was established in year 2000. It has excellent labs and research facilities in Communication Engineering, Signal Processing, VLSI & Embedded systems. The department has a Remote Centre for online lecture under the project National Mission of Education through ICT (NMEICT) of IIT Bombay/ IIT Kharagpur. Institute has NIT Kurukshetra as mentor Institute (Under TEQIP-III) for enhancement of research facilities and in order to promote closure interaction in the area of technology, development, training of students and development of state of art research centre. The Department of ECE, at Engineering College Bikaner has a blend of young as well as experienced, dynamic faculty members and is committed to provide quality technical education. Department has excellent, well connected and strong alumni network to support students.



**HOD Message:** It is my pleasure and honour to welcome you to the Department of Electronics and Communication of Engineering College Bikaner which is one of the premier institutions of North India. The Department of Electronics and Communication Engineering bequeaths students with the capability to apply knowledge of Electronics and Communication Engineering to work efficiently in multidisciplinary teams, endow with leadership and technical expertise, and

practice engineering with ethical approaches. The Department has excellent lab facilities which are being upgraded from time to time and provide ample opportunities for the students to learn and innovate. The Department organizes interactive lectures and Faculty Development Programs/ Seminars by inviting Educationists and Technocrats from industries for the overall development of students as well as for faculties. This website provides an overview of the academic programs, research activities, various laboratories and profiles of faculty members along with details of the students. We hope that whether you are a prospective undergraduate or graduate student, or work in industry, or another Institute/University, or a visitor, you will find this website informative. Thank you for visiting us.

**Dr. Manoj Kuri**  
Ph.D. (IIT Roorkee)



# Department of Electronics and Communication Engineering

## FACULTY

ECE department has well experienced faculty members, most of them are Ph.D. holders from IITs, NITs, and other institutes of National importance. Most of the faculty members have more than 15 years of teaching as well as industrial experience. Few faculty members have been awarded for Ph.D. in IITs. The Departmental faculty actively participating as well as organising International and National conferences, Faculty Development programs (FDP's), Technical workshops, Short term training programs (STTP's), Expert lectures etc. through which both faculty and students got benefitted. Departmental faculty having research publications in peer reviewed journals and conferences, and also published books, book chapters and guided Ph.D. scholars. Faculty possess good interaction with Industries and other Institutions.



**Dr. MANOJ KURI**  
Ph.D. (IIT Roorkee)  
HOD



**Dr. S K BISHNOI**  
Ph.D. (MNIT Jaipur)  
Associate Professor



**Dr. SANJEEV JAIN**  
Ph.D. (MNNIT Allahabad)  
Associate Professor



**Mr. G P Sinsiswar**  
M.Tech. (MNIT Jaipur)  
Associate Professor



**Dr. Sandeep Rankawat**  
Ph.D (Bhagwant Univ)  
Assistant professor



**Mr. Chena Ram**  
Ph.D.\* (RTU)  
Assistant Professor



**Mr. R S Shekhawat**  
M.Tech. (MNNIT Allahabad)  
Assistant Professor



**Mrs. Indu Bhuria**  
Ph.D.\* (Mody Univ.)  
Assistant Professor



**Mr. Ravi Kumar**  
M.Tech. (IIT BHU)  
Assistant Professor



**Mrs. D. Srikanya**  
Ph.D.\* (MNIT Jaipur)  
Assistant Professor





# Department of Electronics and Communication Engineering

## RESEARCH AND INNOVATION

Faculty members have published 300 papers in various peer reviewed journals, National and International conferences. Department has research projects sponsored by government and industry. Faculty and students are encouraged to start companies to commercialize their research innovations. Numerous opportunities are offered to students and faculty to interact with industry through research centres

S.No	Name of project	Project coordinator / co-coordinator	Sponsoring agency	Amount
1.	Livelihood Business, Incubator, ASPIRE	Dr. Manoj Kuri & Mr.Rajendra Singh Shekhawat	MSME GOI	100 Lacs
2.	Technology Business Incubator		Govt. of Rajasthan	50 Lacs
3.	Incubation accelerator		DST, Rajasthan	10 Lacs

## INFRASTRUCTURE & LABORATORIES







# Department of Electronics and Communication Engineering

Department has well-furnished classrooms equipped with Projector, audio-video setup, dashboard and state of art laboratories equipped with modern equipment and trainer kits, smart multi touch LED screen and projectors. Department also has Seminar Hall equipped with Projector to deliver technical presentation/ project seminars/ workshops/ industry interaction presentation and Departmental Library Having collection of Text Books, CD's, Reference, Books and Project / seminar report to meet the needs of students, to provide reference facilities, to refer advanced information for seminar, laboratory projects

## STUDENTS

Students are our strength. Presently, the department has an intake of 60 Students for B.Tech. programme. Apart from training they receive, students get exposure at the National and International level platforms through internships and participation in conferences, Short term courses, Workshops and competitive events. Over the years, our graduates hired in leading National and International organizations and many of our students have made us proud through the achievements in their professional.







# Department of Electronics and Communication Engineering

## ACHIEVEMENTS

- ✚ Dr. Manoj kuri was awarded Ph.D. in 2019 by IIT Roorkee in the field of “Synthetic aperture radar interferometry for displacement measurement”
- ✚ 2nd International Conference on advances in information communication technology & computing (AICTC-2019) Organized by Govt. Engineering College Bikaner, India on 2019, November 8-9 in collaboration with Association of Computing Machinery (ACM).
- ✚ 1st International Conference on advances in information communication technology



& computing (AICTC-2016) Organized by Govt. Engineering College Bikaner, India on 2016, August 12-13 in collaboration with Springer

- ✚ Apart from regular curriculum classes GATE classes are been held in the department and with the help of that many students qualified in GATE exam
- ✚ Apart from regular curriculum classes ESD classes are been held in the department and with the help of that many students got placed in industries.
- ✚ Our alumni Tanushree pareek made history by becoming first women Asst. Commandant in Boarder Security Force.
- ✚ Faculty has visited abroad for participation/research publication in renowned international conferences (Spain, Dubai, China)



## ACTIVITIES

Numerous activities and clubs/chapters are available which complements academic pursuits and provide opportunities for students to develop interests and provide better understanding of recent advancements in the field of electronics and communication engineering. Not only limited to academic activities, students are given opportunities to serve the society through various social activities. The department periodically organizes



various short-term courses (STC), Workshops, Expert lectures, Industrial visits for keeping abreast of the developments in the various fields and so as to make the students industry ready. The department conduct inhouse GATE classes and Employability skill development (ESD) classes to provide student the opportunity to get admitted in IITs/NITs for higher studies and getting placed in PSUs. The department is conducting Hackathon frequently through which students got benefited. Many Students certified in various courses of National Programme on Technology Enhanced Learning (NPTEL). Departmental student activity centre (SAC) have hobby clubs like robotics. Departmental students are also actively participating in NCC, NSS and many sports activities.





# Department of Electronics and Communication Engineering

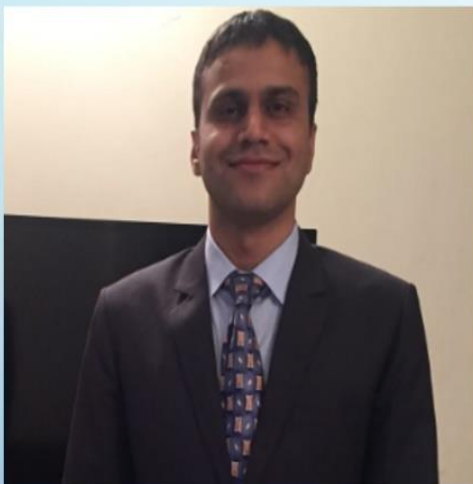
## PLACEMENTS & INTERNSHIPS

Department is providing opportunity for the students to get placed in renowned industries like TCS, CAIRNS ENERGY, L&T, ADANI POWER, SUN ARC TECH., RANOSYS TECHNOLOGIES, GENUS PVT.LTD., ACCENTURE, WIPRO TECHNOLOGIES, HSBC SOFTWARE DEVELOPMENT, SHIKHA INFOTECH, GENPACT, ERICSSO, HP.

Department is also providing the students with opportunity of summer and winter internship at IITs/NITs/PSUs and other renowned government institutes and private sectors. Department also provided the students the facility of online internship on platform like intern Shala at the time of Covid-19 Pandemic.

## ALUMNI

The alumni association provides good platform for the students to get connected with one another and maintain their association with the Institute. They occasionally visit the institute and also provide career guidance and create awareness on latest technologies, industry requirements to students.



**Dinesh Bishnoi**  
IAS, 2013 Batch  
B.Tech. ECE,  
GECEB, Bikaner

**आरएएस-2013 में चयनित राठी ने कहा कि मेहनत और लगन से निभाऊंगी जिम्मेदारी**

**जयपुर, न.सं.**। आशा ही जीवन है, निररा व्यर्थ की तलाश है। एक आशावान सोच जीवन में ऊर्जा भर देती है, यदि लक्ष्य सच्चा हो तो माँजिल जरूर मिलती है...यह कहना है श्यामा राठी का। राठी का हाल ही में आरएएस-2013 में चयन हुआ है। उन्होंने राजस्थान में 12वीं, रायस में द्वितीय और जनरल वूमन में प्रथम रैंक हासिल की है। उन्होंने सिंगल बोर्ड एकेडमी के डाइरेक्टर दिलीप सिंह के सानिध्य में रहकर पढ़ाई की, इसके अलावा राजाना पांच से छह घंटे की पढ़ाई से अपना ये लक्ष्य प्राप्त किया है। उन्होंने बताया कि सच्चे मन और लगन से किया गया कार्य

**मामाओं से मिली प्रेरणा:-**

श्यामा राठी ने अपनी कामयाबी के पीछे अपने मामाओं के योगदान को बताया है। उन्होंने बताया कि उनके मामा देविसिंह शेखावत जो कि अलवर में यूआईटी चेयरमैन हैं, गोपाल सिंह शेखावत जो आरएएस हैं, प्रतापसिंह शेखावत मार्बल व्यवसाय संभालते हैं और शक्तिसिंह शेखावत (आरजेएस) जो कि जेडीए में एग्जीक्यूटिव हैं। श्यामा ने बताया कि मामा शक्तिसिंह के पास रहकर मैंने अपनी तैयारी की है। सभी मामाओं का सपना था कि मैं प्रशासनिक सेवा में जाऊँ। मुझे तैयारी के अलावा कुछ भी नहीं सुझता था, परिवार के हरेक सदस्य का मेरे कामयाबी में बहुत बड़ा योगदान रहा है।

**अब आईएएस बनने का लक्ष्य:-**

श्यामा राठी ने बताया कि दो साल पहले उनकी सगाई दिग्विजय सिंह के साथ हुई है। दोनों ही



**Shyama Rathore**  
RAS 2013 Batch  
B.Tech. ECE,  
GECEB, Bikaner

Department of Electronics & Communication Engineering



## First Women Combat Officer in BSF



**Tanushree Pareek**

**B.Tech. ECE, GECB**

**I**n 2016, Bikaner girl Tanu Shree Pareek created history by becoming the first woman combat officer in the Border Security Forces' 51-year existence. Only three years prior, in 2013, had the border sentinel allowed women to apply for the rank of officers for the first time.

It was a moment of pride as she led the Raising Day Parade of the 67 trainee officers at the BSF Academy in Gwalior, the only woman among 66 male



S.NO	Name	Batch	Organisation	Designation
1	Tanushree Pareek	2008-2012	BSF	Ist Female Asst. Commandant
2	Prolay Verma	2000-2004	ISRO, Ahmedabad	Scientist
3	Rajpal Fogawat	2004-2008	DRDO	Scientist
4	Ashita Chandani	2005-2009	NASA	Scientist
5	Shyama Rathore	2008-2012	Rajasthan Govt.	RAS
6	Rajesh Singh	2004-2008	ISRO	Scientist
7	Surender Saini	2002-2006	BARC Mumbai	Scientific Officer
8	Dinesh Bishnoi	2008-2012	Govt. of India	Civil services
9	Hitesh Modi	2003-2007	ISRO	Scientist
10	Rajesh Singh Rajput	2004-2008	ISRO	Scientist - E
11	Deepak Joshi	2005-2009	SVNIT Surat	Assistant Prof.
12	Chhagan Charan	2005-2009	NIT Kurukshetra	Assistant Prof.
13	Sharad Shahi	2003-2007	Qualcomm, USA	Staff Manager
14	Narendra Parihar	2007-2011	IMEC, Belgium	R&D Engineer
15	Aakansha Goyal	2002-2006	Credit Suisse Melbourne Australia	Assistant Vice President
16	Hemant suthar	2008-2012	Amazon	Software developer
17	Kapil sharswat	2005-2009	Central University Rajasthan	Assistant Prof.
18	Ravishankar Ojha	2002-2006	Qualcomm, India	Sr. R&D Engineer
19	Saurabh Kansara	2006-2010	CVC Health, Texas	Sr. Advisor
20	Dilsukh Nehra	2008-2012	Analog Devices, India	Design Engineer
21	Ashish Maheswri	2005-2009	Oracle R&D Lab	Software Engineer
22	Rohit Chturvedi	2000-2004	KPIT Cumins, UK	Sr. Tech. Consultant
23	Vikram Patel	2003-2007	Infosys Japan	Analyst
24	Madan Kaswan	2003-2007	Glory Yokohama	IOT Engg.
25	Jagdish Arya	2002-2006	AAI	ATC



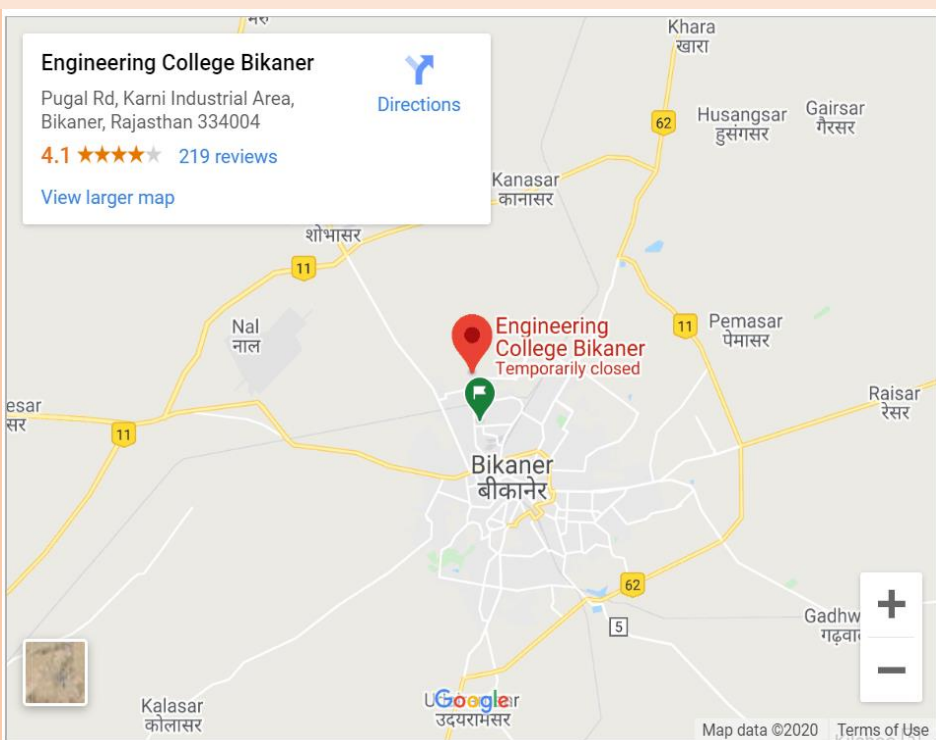


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26	Satendra Singh	2006-2010	Central Excise	Custom officer
27	Leeladhar Gurjar	2006-2010	Central Excise	Custom officer
28	Jai Singh	2002-2006	Ministry of Defence, GOI	Deputy Director
29	Romi Chordia	2002-2006	Capgemini	Manager
30	Swapnil Harsh	2001-2005	Oracle India	Software Engineer
31	Iti Balecha	2004-2008	Oracle India	Software Engineer
32	Dheeraj Chaddah	2004-2008	Microsoft India Pvt Ltd.	Software Engineer
33	Nidhi Mahaswary	2004-2008	Intel India Pvt Ltd.	Software Engineer
34	Kunal Soni	2009-2013	Qualcomm India Private Ltd.	Engineer
35	Mohit Sharma	2005-2009	IBM India Pvt Ltd	Advisory System Analyst
36	Ranjan Parnami	2003-2007	ISRO	Scientist
37	Abhishek kakkar	2004-2008	SAC, ISRO Ahmedabad	Scientist

For more information please visit us

<http://ecb.ac.in/departments/ec.php>



<https://goo.gl/maps/4jQ84p3qAKsDCQs29>



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