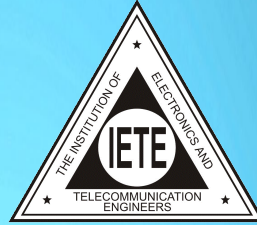


ISBN:978-81-928917-2-9

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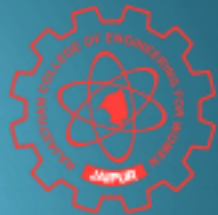
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# PREFACE

It gives me immense pleasure to bring forth the proceedings of the ‘National Conference on Innovations in Science and Technology and its Social Impacts’ on 21<sup>st</sup> and 22<sup>nd</sup> January, 2016. The NCISE'16 is intended to be a forum for discussion and networking for academicians, researchers, professionals, educational leaders, industry representatives, students, young scientists and other stakeholders in education.

The main objective of the conference is to bring the budding technocrats together for the thought provoking interaction & elucidation, and finding a plausible alternative for the impacts that technology and the innovations have made to our society.

The following key points are to be monitored in our conference:

- Reviewing and assessing the progress and implementation gaps in meeting previous national and international commitments in respect to innovation in science and engineering.
- It provides the premier interdisciplinary and multidisciplinary platform to discuss the practical challenges encountered and the solutions adopted for inclusive growth and development.
- It also provides a colloquy for budding technocrats to get acquainted with luminaries of their domain which will ignite their minds for developing new ideas and techniques to minimize challenges for the benefit of industry and society.

The editorial board extends their heartfelt thanks to the management of RCEW for their ground breaking approach of making this conference possible. This also is the moment to appreciate the hard work, commitment and dedication of Faculty, Students and Staff members for taking up the initiative for the grand success of this academic program. It is our combined hope that participants as well as the audience will find this conference a mutually beneficial and an intellectually stimulated experience. We look forward for organizing more such events for the benefit of our society and the posterity of our planet.

**DR. AVINASH SHARMA  
(CONVENER)**



# CONFERENCE SCHEDULE

## INAUGURAL DAY

DATE: 21st Jan, 2016

S. No.	TIMING	PROGRAMME	VENUE
1.	8:30-9:00 AM	Reporting and Registration	Seminar Hall
2.	9:00-10:00 AM	Inauguration Ceremony	Seminar Hall
3.	10:00-11:00 AM	Introduction by keynote speaker	Seminar Hall
4.	11:00-11:30 AM	High Tea	Mess
5.	11:30-1:30 PM	Session I	Seminar Hall
6.	1:30-2:30 PM	Lunch	Mess
7.	2:30-5:00 PM	Session II	Seminar Hall
8.	5:00-5:30 PM	Tea Break	Mess

## VALEDICTION DAY

DATE: 22nd Jan, 2016

S. No.	TIMING	PROGRAMME	VENUE
1.	9:00-11:00 AM	Session I	Seminar Hall
2.	11:00-11:15 AM	High Tea	Mess
3.	11:15-1:30 PM	Session II	Seminar Hall
4.	1:30-2:00 PM	Lunch	Mess
5.	2:00-4:00 PM	Session III	Seminar Hall
6.	4:00 PM onwards	Valedictory + Tea Break	Seminar Hall

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- Dr. Vinay Kumar Pathak, VC, RTU Kota

**PATRON**

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- Dr. Raj Kumar, HOD Physics

**CONVENER**

- Dr. Avinash Sharma, Principal, RCEW

**CO- CONVENER**

- Mrs. Shweta Sharda, HOD, ECE

**FACULTY CONVENER**

- Ms. Ira Joshi, Assistant Professor, ECE Dept.
- Ms. Suman Nehra, Assistant professor, ECE Dept.

**TECHNICAL COMMITTEE**

- Mrs. Manju Mathur Assistant Professor, ECE Dept
- Mr. Roshan Jain Assistant Professor, ECE Dept
- Ms. Neha Gautam Assistant Professor, ECE Dept
- Ms. Aruna Bansal Assistant Professor, ECE Dept

**ORGANISING COMMITTEE**

- Mr. Rajveer Singh, Assistant Professor, ECE Dept
- Mr. Sachin Singhal, Assistant Professor, ECE Dept
- Ms. Abha Sharma, Assistant Professor, ECE Dept
- Ms. Kanchan Grover, Assistant Professor, ECE Dept
- Ms. Sangeeta Choudhary, ECE Dept
- Ms. Ankita Chaurasia, ECE Dept

**STUDENT CONVENER**

- Salaka
- Aayushi Jain
- Kanishka Shree
- Aastha Chandelia
- Deepika Verma
- Shruti Dev

कालीचरण सराफ  
मंत्री  
उच्च, संस्कृत, तकनीकी शिक्षा विभाग  
विज्ञान व प्रौद्योगिकी एवं सैनिक कल्याण विभाग  
राजस्थान सरकार



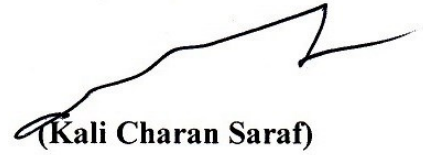
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### MESSAGE

I am glad to know that Rajasthan College of Engineering for Women is going to organize DST sponsored National Conference on 21<sup>st</sup> and 22<sup>nd</sup> January, 2016.

Conference and Seminars are opportunity to provide platform for Technocrats, Academicians, Researchers and student to come together on a common platform to discuss about their work in respective fields and elaborates the ideas and discuss the future prospect.

I convey my greetings and best wishes to all those who are involved in the conference.



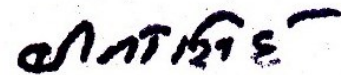
(Kali Charan Saraf)



## MESSAGE

With all due respect, I welcome all the academicians, researchers, professionals and students who are showing their keen interest as participants in the National Conference on Innovations in Science and Engineering and its Social impacts, 2016. This conference is a platform to study and discuss the scientific escalation in our country and also the influence that it has on our lives. It's a platform for the aspiring minds to showcase their skills and toil, regarding the same.

I extend my sincere gratitude towards those who have put their best efforts and hope to make this conference a huge success. I am sure our young scholars would definitely become more competent after working with the expert minds of the invited dignitaries. I bestow my best wishes for the successful completion of the program.

A handwritten signature in black ink, appearing to read "Beena Singh".

**(MRS. BEENA SINGH)**  
**Chairperson, RCEW**



## MESSAGE

I am extremely elated to welcome the industrial delegates, professionals, technologists and innovators to the forthcoming National Conference hosted by our college, RCEW. The theme of the conference itself is very inviting for the trailblazers to attend this symposium and utilize their expertise to bring social reforms in our society. The future of our country lies in the hands of our young novices. I therefore express my genuine thanks to all the students and scholars who would be joining us towards a step to bring transformations in our society.

My deepest appreciation to Department of Electronics and Communication, RCEW, for organizing the event. Also, to the technical council for extending a helping hand in the manifestation process of the program.

In the last, my profound acknowledgement to the sponsors of the conference, for bringing this conference into reality.

A handwritten signature in blue ink, appearing to read 'Avinash', with a horizontal line underneath.

**(DR. AVINASH SHARMA)**  
**Principal, RCEW**



## MESSAGE

I praise the DRDO, ISTE and IETE for coming forward to sponsor the National Conference on Innovations in Science and Engineering and also to study its Social impacts. This conference is being organized by the Department of Electronics and Communications under the umbrella of a well known institution, RCEW. They also deserve appreciation for taking up this challenge, initiating for touching new heights by research and its implementation, and to recognize the social impacts of such research and development. The students of this facility are forthcoming Engineers and scientists, as well as research scholars in the field and therefore this is going to be of immense use for their career building too.

I congratulate and extend my heartfelt good wishes for grand success of this effort. My all appreciation and best wishes for successful execution of this conference are with all.

**(PROF. DEEPAK BHATNAGAR)**  
**Director, Center for Converging  
Technologies**



सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान  
**CSIR - CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE**  
(विज्ञानतथाप्रौद्योगिकीमंत्रालय, भारतसरकार)  
(MINISTRY OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA)  
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### MESSAGE

The National Conference on Innovations in Science and Engineering and its Social Impacts (NCSIE -2016) being organized by RCEW Jaipur is an apposite initiative to kindle the young engineering minds with the synergy between education, research and socio-economic impact there of. The isochronal linkage between science, technology, innovation and the social impact has been part of the bigger national and international debates since long. Apt emphasis on education leading to socially relevant outcomes constitutes a part of the more nuanced picture of aforementioned complex activities.

Science and technology are driven by either human curiosity or the need of societies. Sometimes the interaction of the two presents a bigger surprise – evolution of world wide web and mobile communication technology are a few of the best examples. The post war European and Japanese progress in automobile, avionics, horology, communication and allied sectors presents an example of the craftsmanship blending with industrial thrust, which paved the way for revolution in microelectronics and computing technologies by USA. ‘An open to the best from any where in the world’ – education system of US has paid huge dividends in making it the richest innovative nation with global impact. In India, innovations in any sector are driven mostly by the necessity. Recent progress in the educational sector is one of the examples where civil society has an important and bigger role. Conferences, symposia and workshops such as NCSIE being organised by RCEW may generate an effective interface between the education, technology innovation and socio-economic needs of the nation.

I compliment the organizer for their efforts to organize a conference on such a contemporary topic. The programme should benefit one and all.



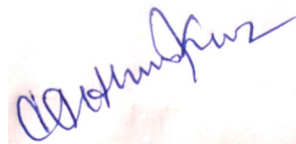
**(K.J. RANGRA)**



## MESSAGE

It is indeed a need of the day for the new horizons of research and development in the sphere of Science and Engineering to be taken up as a challenge. This is initiated by the research scholars, social workers, teachers and the leaders of our society. Such conferences at the National level and at the root level of the institutions provide education of science and technology and facilitates for research in these areas.

I, from the deepest corner of my heart, extend my congratulations for initiating to host 'National Conference on Innovations in Science and Engineering and its social impacts'. I also extend my greetings to the committee members who worked and are working until the successful completion of the event. My best wishes with those who employed themselves in the event accomplishment, thereby considering their participation as a pious duty towards their society. Best of luck! I am sure; this event would turn out to be a great success.

A handwritten signature in blue ink, appearing to read 'Mithilesh Kumar'.

**(DR. MITHILESH KUMAR)**  
**Professor, RTU**



## MESSAGE

NCISE-2016 is a National level Conference to discuss the revolution that Science and fields have brought to us in the previous decade; and also a symposium to discuss the counter effects of these changes. This conference would provide a stage for utilizing multidisciplinary actions to face the challenges that Science and Engineering has brought with them.

I proffer my cordial congratulations to the faculty and the students of the institution, RCEW, for striving hard for planning up this conference. I am sure this conference would turn out into a great triumph. I also offer my appreciation to the personages who have come forward to engage themselves in the conference of this high level intellectual. May the hopes and the aspirations of our fellow students bore fruit. It is my honor to extend felicitations to the organizing and technical committees of the event and my best wishes for the conference to be a success.

All the best!

A handwritten signature in black ink, appearing to read "R. Tomar", written over a light-colored rectangular background.

**(PROF. RAGHUVIR TOMAR)**  
**Professor, LNMIIT**

# ABOUT RCEW



Rajasthan College of Engineering for Women is an engineering college for girls located at Ajmer Road, Bhankrota, Jaipur, Rajasthan, India.

Rajasthan College of Engineering for Women is promoted by Chandrawati Education Society with the aim to enable the girl students to unchain barriers to reach greater heights. RCEW is the first and only girls' engineering college in Jaipur. The college is located very close to National Highway No. 8 on Jaipur-Ajmer segment.

RCEW offers:

- Placement assistance
- Scholarships for meritorious and deserving students
- Affiliated to Rajasthan Technical University and approved by AICTE
- ISO 9001:2008 certified
- Membership with academic and technical associations
- Organizes industrial visits, conferences, seminars, workshops & guest lectures.

# ABOUT NCISE



The NCISE'16, National Conference on Innovation in Science & Engineering and its Social Impacts is intended to be a forum for discussion and networking for academicians, researchers, professionals, educational leaders, industry representatives, students, young scientists and other stakeholders in education.

This will include:

- Reviewing and assessing the progress and implementation gaps in meeting previous national and international commitments in respect to innovation in science and engineering.
- It provides the premier interdisciplinary and multidisciplinary platform to discuss the practical challenges encountered and the solutions adopted for inclusive growth and development.

It also provides a colloquy for budding technocrats to get acquainted with luminaries of their domain which will ignite their minds for developing new ideas and techniques to minimize challenges for the benefit of industry and society.



# ABOUT DRDO



Defence Research & Development Organization (DRDO) works under Department of Defence Research and Development of Ministry of Defence. DRDO dedicatedly works towards enhancing self-reliance in Defence Systems and undertakes design & development, leading to production of world class weapon systems and equipment in accordance with the expressed needs and the qualitative requirements laid down by the three services. DRDO is working in various areas of military technology which include aeronautics, armaments, combat vehicles, electronics, instrumentation engineering systems, missiles, materials, naval systems, advanced computing, simulation and life sciences. DRDO while striving to meet the Cutting edge weapons technology requirements, provides ample spinoff benefits to the society at large, thereby, contributing to the nation building.

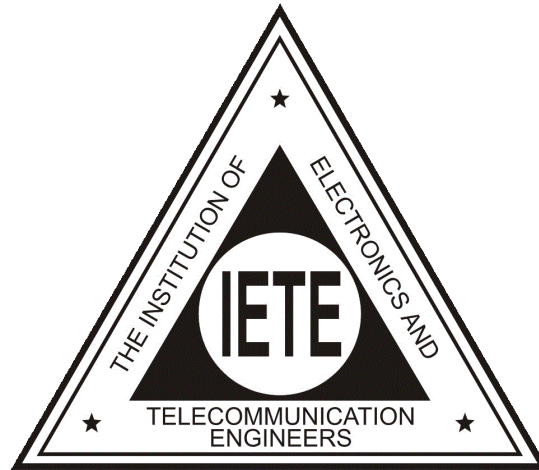
# ABOUT ISTE



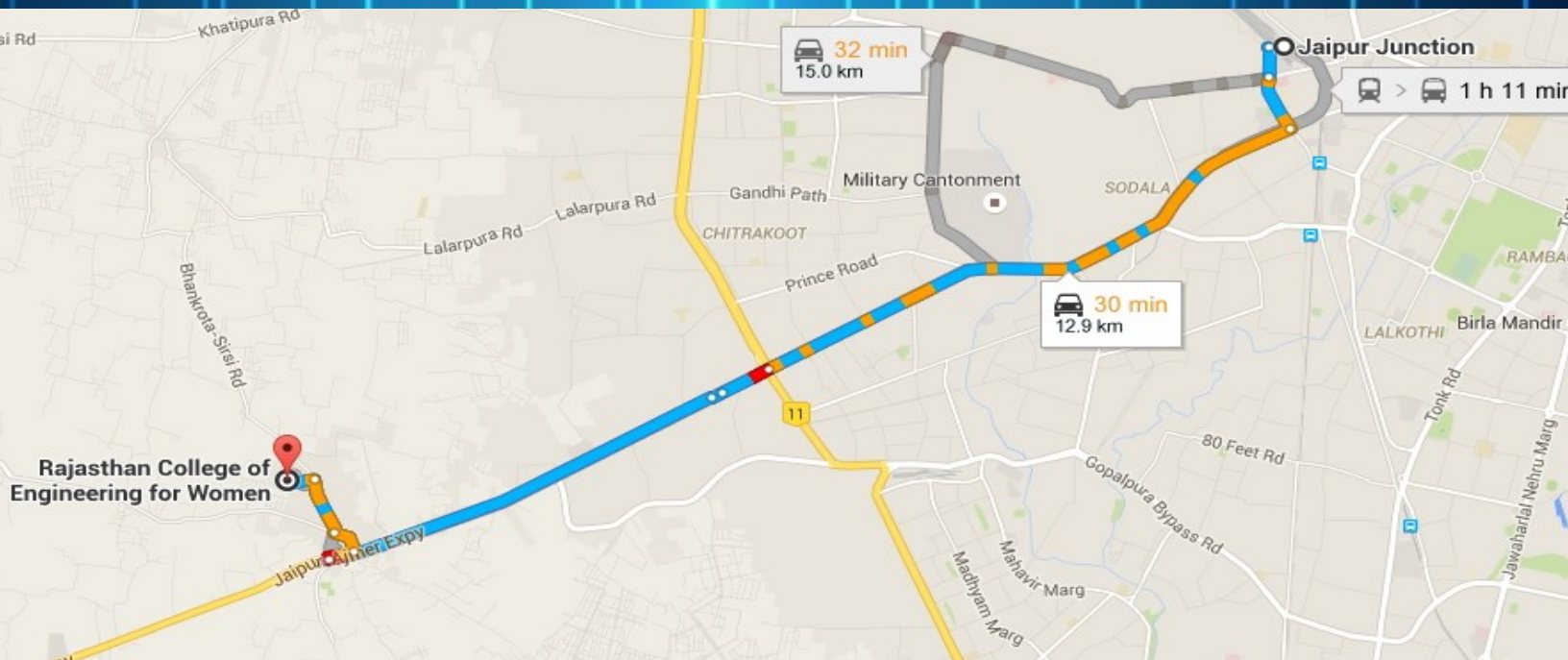
The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. At present, ISTE has a very large and an effective membership base consisting of more than 1,02,985 Life Members, 5,54,094 Student Members, 2410 Institutional Members (including IITs, IISc., NITs and other leading technical institutions), 1214 Faculty Chapters and 1322 Students' Chapters and 17 Sections throughout the country.

The major objective of the ISTE is to provide quality training programs to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.

# ABOUT IETE



The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT. Founded in 1953, it serves more than 60,000 members through various centers, whose number is 65, spread all over India and abroad. The Institution provides leadership in Scientific and Technical areas of direct importance to the national development and economy. Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational Institution of national eminence. The objectives of IETE focus on advancing electro-technology. The IETE conducts and sponsors technical meetings, conferences, symposia, and exhibitions all over India, publishes technical journals and provides continuing education as well as career advancement opportunities to its members.



**RAJASTHAN COLLEGE OF ENGINEERING FOR WOMEN,  
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