

Raj Kumar Goel Institute of Technology Ghaziabad

(ISO : 9001 : 2015 : CERTIFIED)

Department of
**ELECTRONICS &
COMMUNICATION
ENGINEERING**

UDGHOSH

Voice of ECE Department

**RONICS
MUNICATION**

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Get in touch with us

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UDGHOSH- VOICE OF ECE DEPARTMENT

Dear Readers,

A weak link is better than a strong memory. Nothing exemplifies it better than the nostalgic feeling one gets when leafing through the old pages of departmental magazine. It can make a reader travel down the lanes of memory, giving rise to a surge of emotions of many hues and colors. We are happy to see the amount of enthusiasm of eminent members of the faculty to contribute to the magazine. We stand awed by the sheer number of articles that have come pouring in for the magazine. This shows the positive and creative energy of faculty members and students present in the department. We proudly release the next edition of UDGHOSH. We intend to continue presenting the talent, achievements and creativity of our department. Any suggestions for improvement are welcome.



Dr. Pavan Kumar Shukla
Chief Editor



Ms. Richa Gupta
Editor



Mr. Kunal Lala
Editor

ORIENTATION PROGRAMME

In continuation of the first year orientation program the Institute organized guest Lectures to aware our students on environmental issues on 28th July, 2018 (Saturday) from 2:00pm to 5:00pm in CRC block.

The following topics were covered in this program:

- a) Scientific contribution of India to world's technological development
- b) The Air and Water pollution in Delhi and NCR: Problem and its possible Solution

Guest Speakers:

- 1) A senior environment scientist, Dr. Umesh Kulshrestha from JNU, Delhi.
- 2) Dr. S W A Naqvi, Director CSIR-NIO.
- 3) Dr. Somdev Bhardwaj, Organizing Secretary, Vigyan Bharti, U.P.

Around 300 students and faculty members from various departments especially (Applied Sciences) attended the program.

Prof Laxman Prasad (Group Director, R&D) Prof. R.P. Maheshwari (Director, RKGIT) Shri H G Garg (Dean Student Welfare), Dr Puneet Chand Srivastava (Dean 2nd Shift) and Dr. Poonam C. Kumar (HOD ASH) were present in the program.

Mr. Maneesh Kumar Srivastava coordinated the program under the guidance and supervision of Prof. Dharendra Kumar (HOD ECE).

Program started with the formal welcome of the Guests by Group Director (R&D), Director and Dean.

Program Details:

Program was basically focused on air and water pollution. Prof. Umesh Kulshrestha, a well known Environmentalist touched the technical aspects of air pollution and also discussed its remedies. According to him, India is safe from acid rain because it is protected by dust. On the other hand dust is also a big problem.

Dr. Naqvi focused his concern over increased tapping of Ground Water. Consequently, Underground Water Level is decreasing. He also invoked the students to accept the challenge of saving water.

Control of water pollution requires appropriate infrastructure and management plans. The infrastructure may include waste water treatment plants. Sewage treatment plants and industrial waste water treatment plants are usually required to protect water bodies from untreated wastewater.

Dr. Somdev Bhardwaj enlightened over the contribution of Indian Scientists since Kanad to Kalam . He encouraged the students to work for nation. He mentioned many live examples of various great Indians.

He told the story of the, Dr C V Raman, First Indian who achieved Nobel Prize in the field of Science.

He did not forget to tell the achievement in the field of cloning done by the Great Scientist Matapurkar . He also mentioned about the Nuclear Scientist and mechanical Engineer Dr. Anil Kakodkar. He also remembered our Missile Man Dr. APJ Abdul Kalam Azad.



आरकेजीआईटी में इन्डवशन कार्यक्रम आयोजित

हिन्ट संवाददाता

गजियाबाद। आरकेजीआईटी में पर्यावरण के प्रति जागरूक रहने के लिए एक कार्यशाला का आयोजन किया गया। इसमें चोटेक प्रथम वर्ष के छात्रों ने भाग लिया। कार्यशाला में विशेषतः वायु एवं जल प्रदूषण पर प्रकाश डाला गया। प्रोफेसर उमेश कुलश्रेष्ठ (जेएनयू दिल्ली) ने वायु प्रदूषण के तकनीकी पहलुओं तथा उनसे बचने के उपाय भी बताए। डा. नकवी एसडब्ल्यू ने जल की बढ़ती हुई कमी के बारे में चर्चा की। उन्होंने बताया की ग्रैंड वॉटर का जरूरत से ज्यादा दोहन होने से उसका जमीन के नीचे लेवल कम होता जा रहा है। इसके लिए डा. नकवी ने सभी बच्चों से आह्वान किया कि जल संरक्षण के लिए सभी को आगे आकर कार्य करना होगा। डा. सोमदेव भारद्वाज ने भारत के वैज्ञानिकों के योगदान पर विस्तार से चर्चा की। इस आयोजन में डा. आरपी माहेश्वरी (डायरेक्टर), डा. अरविन्द सिंह (डीन एकेडमिक), एचजी गर्ग (डीएसडब्ल्यू), डा. पुनीतचंद श्रीवास्तव (डीन द्वितीय पाली) एवं डा. धीरेन्द्र कुमार (विभागाध्यक्ष इंजीनी) उपस्थित रहे।

पर्यावरण के प्रति छात्रों को किया जागरूक

गाजियाबाद, 30 जुलाई (ब्यूरो): मेरठ रोड स्थित राजकुमार गोयल इंस्टीट्यूट में सोमवार को पर्यावरण के प्रति जागरूकता फैलाने के लिए



पर्यावरण बचाओ कार्यशाला का आयोजन किया गया। इस कार्यशाला में बोटिक प्रथम वर्ष के छात्रों ने भाग लिया। कार्यशाला में विशेषतः वायु एवं जल प्रदूषण पर प्रकाश डाला गया। जेएनयू दिल्ली से आए प्रोफेसर उमेश कुलश्रेष्ठ

ने वायु प्रदूषण के तकनीकी पहलुओं तथा उनसे बचने के उपाय भी बताये। डॉ. नकवी एसडब्ल्यू ने जल की बढ़ती हुई कमी के बारे में चर्चा की। उन्होंने बताया कि ग्राउंड वाटर का जबरत से ज्यादा दोहन होने से उसका जमीन के नीचे लेवल कम होता जा रहा है। इसके लिए डॉ. नकवी



The brief introduction of the guests is mentioned below :

1. **Dr. Umesh Kulshrestha, Professor in Environmental Science Department JNU, New Delhi**
 - He is Fellow, Indian Geophysical Union Associate Fellow of Andhra Pradesh Academy of Sciences. Received many awards such as CSIR Young Scientist Award 2004 by Council of Scientific and Industrial Research, New Delhi, M S Krishnan Gold Medal 2004 by Indian Geophysical Union (IGU), Thomas Kuhn Honour Pin Award 2002 by The International Union of Air Pollution Prevention & Environmental Protection Associations (IUAPPA) and the International Academy of Sciences. International START Young Scientist Award 2000 by IGBP-START (System for Analysis, Research and Training for global change) Washington DC, USA. IICT Gaurav Samman, 2005 Award by Indian Institute of Chemical Technology, Hyderabad. Expert Reviewer of IPCC AR5 (WG1) Review Editor of WMO/UNEP Integrated Assessment Report on Black Carbon and Ozone 2011 Expert member and Indian Mentor, Air Pollution India Training Programme organized by Swedish Meteorology and Hydrology Institute, Norrkoping, Sweden. Member, Academic Advisory Board, The Energy Resources Institute (TERI), New Delhi. Member of Scientific Advisory Board of Environmental Science Published for Everyman Round the Earth (ESPERE) in the field of Urban Climate and Emissions.

South Asia Coordinator for aerosol and precipitation chemistry measurements for IMI Stockholm University under Atmospheric Brown Cloud project. Member of Expert committee of EPTRI on Andhra Pradesh Govt GO-111 regarding safeguards of drinking water in Usman Sagar and Himayat Sagar in Hyderabad. Delivered Key Note Address on Global warming and Climate Change on World Environment Day (June 5, 2007) at Agartala, Tripura, India.

- Editorial Board member of several journals Guest Editor Special Issue on trajectories of Advances in *Meteorology*.

2. Dr. S W A Naqvi, Ex-Director CSIR-NIO.

- Director (Additional charge) (Central Salt and Marine Chemicals Research Institute, Bhavnagar), June 2015 -January 2016
- Acting Director/Director (National Institute of Oceanography, Dona Paula, Goa), 2012/2013-
- Outstanding Scientist (National Institute of Oceanography, Dona Paula, Goa), 2010-2012
- Scientist G (National Institute of Oceanography, Dona Paula, Goa), 2006 - 2010
- Scientist F (National Institute of Oceanography, Dona Paula, Goa), 2001 - 2006
- Scientist E-II (National Institute of Oceanography, Dona Paula, Goa), 1996 - 2001
- Scientist E-I (National Institute of Oceanography, Dona Paula, Goa), 1991 - 1996
- Scientist C (National Institute of Oceanography, Dona Paula, Goa), 1986 - 1991
- Scientist B (National Institute of Oceanography, Dona Paula, Goa), 1981 - 1986
- Senior Scientific Assistant (National Institute of Oceanography, Dona Paula, Goa), 1978 - 1981
- Junior Scientific Assistant (National Institute of Oceanography, Dona Paula, Goa), 1976 - 1978
- Junior Research Fellow (National Institute of Oceanography, Dona Paula, Goa), 1974 - 1976

Scholarships and awards:

- J.C. Bose Fellowship (Department of Science & Technology, Government of India), 2015
- Sisir Kumar Mitra Lecture Award (Indian National Science Academy, New Delhi), 2015
- HN Siddiquie Medal (Indian Geophysical Union), 2014
- PSN National Award for Excellence in Science & Technology (PSN Educational and Charitable Trust), 2013
- National Award for Ocean Science & Technology (Government of India, Ministry of Earth Sciences), 2013
- Marie Curie Fellowship (The European Commission), 2008-2011
- Fellow (Third World Academy of Sciences, Trieste, Italy), 2008
- Adjunct Scientist (Woods Hole Oceanographic Institution, Woods Hole, USA), 2006
- Fellow (Hanse Wissenschaftskolleg, Delmenhorst, Germany), 2004-2005
- Vigyan Ratna (Uttar Pradesh Government), 2004
- Fellow (National Academy of Sciences, Allahabad), 2002
- Fellow (Indian National Science Academy, New Delhi), 2001

- Visiting Professor (Institute for Hydrographic and Atmospheric Sciences, Nagoya University, Japan), 2000
- Shanti Swaroop Bhatnagar Prize (Earth, Atmosphere, Ocean & Planetary Sciences) (Council of Scientific and Industrial Research, India), 1996
- Fellow (Indian Academy of Sciences, Bangalore), 1995
- Young Scientist Award (Physical Sciences) (Muslim Association for the Advancement of Science, Aligarh), 1992
- Raman Research Fellowship (Council of Scientific and Industrial Research, India), 1991
- Young Scientist Award (Earth Sciences) (Council of Scientific and Industrial Research, India), 1987

Professional Memberships:

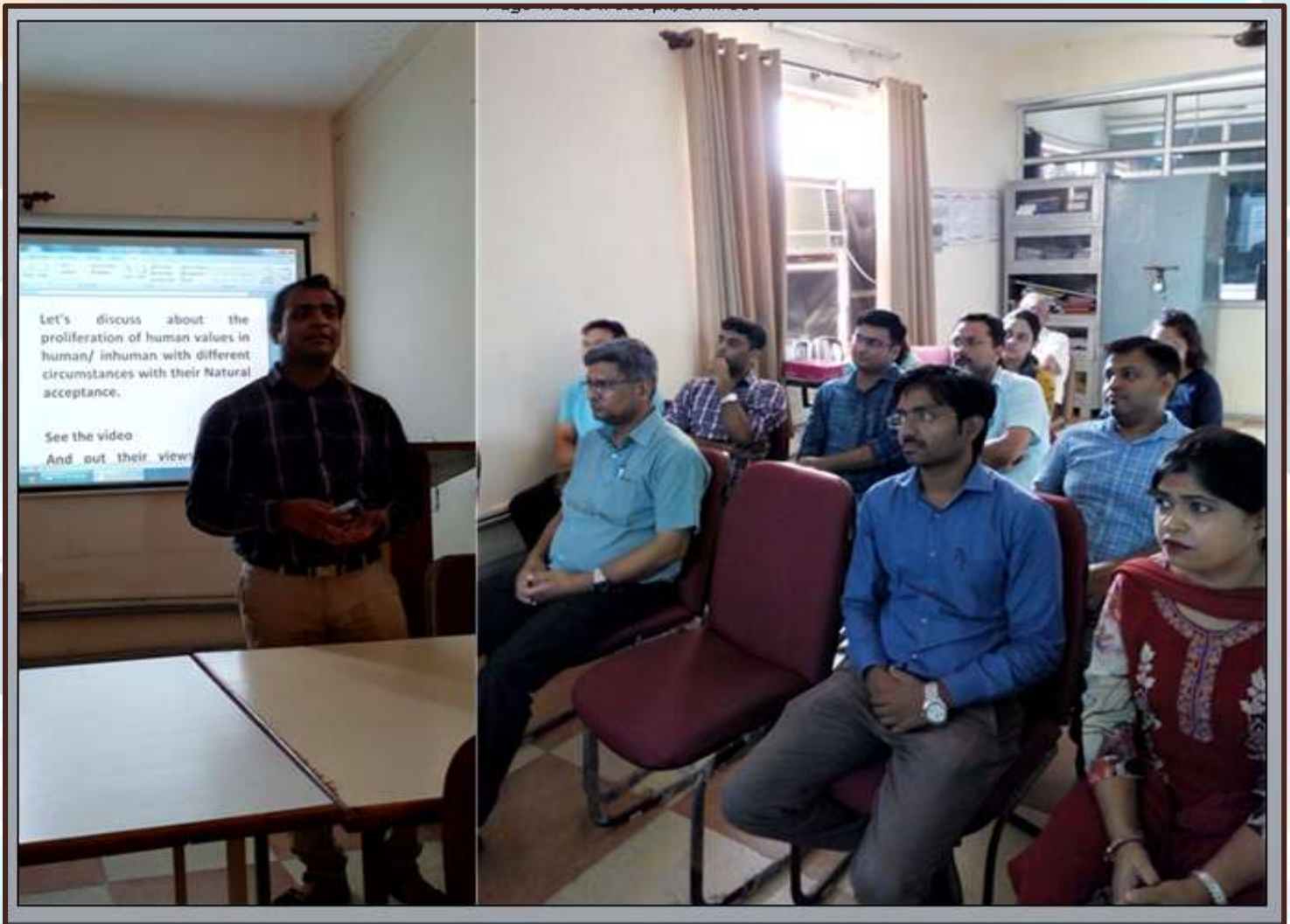
- Member, European Geosciences Union
- National Contact for Land-Ocean Interaction in the Coastal Zone (LOICZ) 1995-2000
- Member, Indian National Committee for IGBP (1997-2000)
- Member, Indian National Committee for IUGG (2000-2003)
- Chairman, Joint National Committee for SCOR (Scientific Committee for Oceanic Research) and SCAR (Scientific Committee for Antarctic Research) (2003-2007)
- Member, National Steering Committee of INDOEX (Indian Ocean Experiment) (1998-2000)
- Member, Scientific and Technical Advisory Committee for Research Vessel Sagar Kanya (2001-2005)
- Member, Scientific Advisory Panel for ISRO Geosphere-Biosphere Programme (2002-)
- Member, Ocean Environmental Panel, Naval Research Board (2002-)
- Member, Earth Sciences Committee, Council of Scientific & Industrial Research (2004-)
- Member Scientific Advisory Committee, Department of Ocean Development, India (2004-2005)
- Member, ICSU's Panel of Experts for the Evaluation of International JGOFS (Joint Global Ocean Flux Study) - 1995
- Member, International task team of IGBP (JGOFS/IGAC) for Biogeochemical Ocean-Atmosphere Transfers (1993-95)
- Member, International task team of IGBP (JGOFS/IGAC) for Biogeochemical Ocean-Atmosphere Transfers (1993-95)
- Member, Indian Ocean Synthesis Group of JGOFS (1999-2002)

3. Somdev Bharadwaj, Organizing Secretary Vigyan Bharati UP

He was Professor and Head in Cancer Institute at Gwalior taken VRS and joined Vigyan Bharati full time. He has received several awards. At present he is in charge of IISF-2018 Lucknow from UP.

HUMAN VALUES WORKSHOP

A workshop on human values was conducted on 28th May 2018 in the department of ECE. It was very interactive and beneficial session. Mr. Sumit Maheshwari (Asst. Prof, EN) delivered a lecture on human values and its importance in our day to day lives.



FACULTY ACHIEVEMENTS

The following faculty members have successfully completed the online certifications by Electronics & ICT Academy, IIT Kanpur.





Electronics & ICT Academy

ICT (E&I) AC (E)

Ministry of Electronics & Information Technology
Government of India



Online Certification Course On Getting started with Verilog



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Dr. / Mr. / Ms. Anamika Gupta of
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Prof. B. V. Phani

Prof. Aney Karkare



Date of Issue: 03-08-2018
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Prof. B. V. Phani

Prof. Aney Karkare



Date of Issue: 04-08-2018
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RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY, GHAZIABAD has

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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Aney Karkare



Date of Issue: 03-08-2018
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This is to certify that

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RKGIT GHAZIABAD has

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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Aney Karkare



Date of Issue: 06-07-2018
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Dr. / Mr. / Ms. Deepak Kumar of
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Prof. B. V. Phani

Prof. Aney Karkare



Date of Issue: 30-06-2018
Identification No.: 2543-00066

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Online Certification Course On Basic Electronics



This is to certify that

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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 27-07-2023
System Identification No.: 2570-77400



Online Certification Course On Getting started with Verilog



This is to certify that

Dr. / Mr. / Ms. Vartika Anand of
Raj Kumar Goel Institute Of Technology (RKGIT), Ghaziabad has

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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 04-08-2023
System Identification No.: 3038-95346



Online Certification Course On Working with Op-Amps



This is to certify that

Dr. / Mr. / Ms. Anuj Kumar of
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successfully completed the Online Certification Course conducted by E & ICT Academy,
Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 03-08-2023
System Identification No.: 3093-10072



Online Certification Course On Getting started with Verilog



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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 08-08-2023
System Identification No.: 3038-95346



Online Certification Course On Working with Op-Amps



This is to certify that

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Raj Kumar Goel Institute Of Technology (RKGIT), Ghaziabad has

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Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 10-07-2023
System Identification No.: 2694-10072



Online Certification Course On Basic Electronics



This is to certify that

Dr. / Mr. / Ms. Hashmat Usmani of
Raj Kumar Goel Institute Of Technology (RKGIT), Ghaziabad has

successfully completed the Online Certification Course conducted by E & ICT Academy,
Indian Institute of Technology, Kanpur.

Prof. B. V. Phani

Prof. Anjay Karkare
E & ICT Coordinator



Date of Issue: 07-08-2023
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This is to certify that

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Indian Institute of Technology, Kanpur.

Date of Issue: 03-08-2018
System Identification No.: 1381-95966

Prof. B. V. Phani

Prof. Amey Karkare
E & ICT Coordinators



Mr. Anil Verma Asst. Prof. (AEI), delivered an expert lecture on " Innovation in SolarBased Application and recent trends " in the FDP held on 11-15th June, 2018 at Institite of Tecnology, Gopeshwar.



NASSCOM TRAINING PROGRAMME

ARICENT EMPLOYABILITY ENHANCEMENT PROGRAMME 2018

RKGIT has tied up with Centum and is organizing a summer training programme on JAVA for the students of 3rd Year. The programme aims to create greater employability opportunities for engineering college students across Delhi NCR. At the end of the training, candidates will be assessed and certified on the NSDC - SSC NASSCOM Qualification Parameters (QP). Students successfully completing the course and assessments will finally be linked to suitable employment opportunities through placement drives and job fairs.

Around 75 students of EC,CS and IT streams are participating in this training programme.

The following students of EC second shift have successfully completed the NASSCOM (Aricent Java Training Programme) and will soon be certified for the same.

1. Shakti
2. Omvir Singh
3. Prabhanshu Dwivedi
4. Shubham Thakur
5. Abhay Singh
6. Hitesh Bharadwaj

Placement 2017-18

S.No.	ROLL NO.	Name Of The Students	Branch	Name of company
1	1403331043	ASTHA VERMA	ECE	AuthBridge Research Services
2	1403331047	BANDANA YADAV	ECE	Amazon India
3	1403331039	ASHUTOSH TRIPATHI	ECE	Amazon India
4	1403331094	NEELESH SINGH	ECE	Amazon India
5	1403331097	NIKHIL SONI	ECE	Amazon India
6	1403331150	SNEHA RAGHUNATH	ECE	Genpact
7	1403331030	ANU GUPTA	ECE	Genpact
8	1403331091	NAMAN SINGH	ECE	Capitalvia Global
9	1403331108	PRIYAM AWASTHI	ECE	Capitalvia Global
10	1403331061	GAURAV SINGH	ECE	Capitalvia Global
11	1403331003	AAYUSHI SHARMA	ECE	Capitalvia Global
12	1403331101	PRACHI MISHRA	ECE	Capitalvia Global
13	1403331102	PRAGATI PANDEY	ECE	Capitalvia Global
14	1403331166	VIDHI BHATNAGAR	ECE	Work Advantage Pvt Ltd
15	1403331042	ASTHA PANDEY	ECE	Times Internet
16	1403331111	RAJAN MISHRA	ECE	Activity Based Learning Education
17	1403331119	RITESH KUMAR	ECE	TaskStream
18	1403331159	UJJAWALA SINHA	ECE	Ingenious E-Brain Solutions
19	1403331073	JYOTSHNA PRIYA	ECE	NEW AGE INSTRUMENTS & MATERIALS PVT. LTD.
20	1403331076	KISHAN	ECE	Progility Technologies Pvt Ltd.
21	1403331158	TEJUS SRIVASTAV	ECE	Progressive Infotech Private Limited
22	1403331022	ANJALI MISHRA	ECE	Asmetech Engineers Pvt Ltd.

23	1403331160	UJJWAL KALA	ECE	Asmetech Engineers Pvt Ltd.
24	1403331046	AYUSHI SINGH	ECE	Asmetech Engineers Pvt Ltd.
25	1403331016	AKSHIT MITTAL	ECE	Appinventiv Technologies
26	1403331043	ASTHA VERMA	ECE	Frontiers Management System
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30	1403331041	ASHWANI KUMAR RAI	ECE	Just Dial
31	1403331124	ROSHNI AWASTHI	ECE	Limitless & Zonone
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33	1403331077	KONIKA VERMA	ECE	Limitless & Zonone
34	1403331034	APURVA RAI	ECE	Limitless & Zonone
35	1403331002	AAYUSHI GUPTA	ECE	Limitless & Zonone
36	1403331053	DEEKSHA SRIVASTAVA	ECE	Limitless & Zonone
37	1403331020	Anant Shukla	ECE	Bhilwara Infotechnology Limited
38	1403331025	Ankit Sahu	ECE	Bhilwara Infotechnology Limited
39	1403331134	Shivali Saxena	ECE	Bhilwara Infotechnology Limited
40	1403331091	NAMAN SINGH	ECE	Augmatiks
41	1403331132	SHASHANK BINDAL	ECE	Augmatiks
42	1403331098	NIMISHA DWIVEDI	ECE	American Cyber Systems
43	1403331132	SHASHANK BINDAL	ECE	American Cyber Systems
44	1403331003	AAYUSHI SHARMA	ECE	American Cyber Systems
45	1403331052	CHANDAN SINGH	ECE	NTT Data
46	1403331009	ADITYA GOENKA	ECE	NTT Data
47	1403331100	PRACHI CHAUHAN	ECE	NTT Data
48	1403331010	ADITYA KUMAR SINGH	ECE	QUANTUM PAGE PVT. LTD.
49	1403331006	ABHISHEK KUMAR PATEL	ECE	QUANTUM PAGE PVT. LTD.

50	1403331134	SHIVALI SAXENA	ECE	Collabera Technologies Pvt. Ltd
51	1403331139	SHIVANI SINGH	ECE	Collabera Technologies Pvt. Ltd
52	1403331061	GAURAV SINGH	ECE	Collabera Technologies Pvt. Ltd
53	1403331067	HARSHIT SONI	ECE	Collabera Technologies Pvt. Ltd
54	1403331073	JYOTSHNA PRIYA	ECE	Collabera Technologies Pvt. Ltd
55	1403331126	SAKSHI SHUKLA	ECE	Collabera Technologies Pvt. Ltd
56	1403331096	NIKHIL RAIZADA	ECE	Collabera Technologies Pvt. Ltd
57	1403331103	PRAKHAR NAYAK	ECE	Collabera Technologies Pvt. Ltd
58	1403331042	ASTHA PANDEY	ECE	Justdial
59	1403331099	PIYUSH GIRI	ECE	Justdial
60	1403331126	SAKSHI SHUKLA	ECE	Justdial
61	1403331058	DHANANJAI MISHRA	ECE	NestAway
62	1403331092	NARVADESHWAR CHAUBEY	ECE	Shivam Video Pvt. Ltd.
63	1403331024	ANKIT GUPTA	ECE	Shivam Video Pvt. Ltd.
64	1403331030	ANU GUPTA	ECE	SilverPeak Global
65	1403331099	PIYUSH GIRI	ECE	SilverPeak Global
66	1403331145	SHUBHAM GUPTA	ECE	Shriram Transport Finance
67	1403331096	NIKHIL RAIZADA	ECE	Shriram Transport Finance
68	1403331088	MUKESH KR MAURYA	ECE	SilverPeak Global
69	1403331116	RAVI KUMAR	ECE	Koyo Electronics India Pvt Ltd
70	1403331010	ADITYA KUMAR SINGH	ECE	Amazon
71	1403331116	RAVI KUMAR	ECE	E2E Research
72	1403331041	ASHWANI KUMAR RAI	ECE	Rivigo
73	1403331025	ANKIT SAHU	ECE	Cognizant
74	1403331158	TEJUS SRIVASTAV	ECE	Cognizant

* Priyam Awasthy (EC Second Shift -Batch 2014-18) has been placed in Byju's with a package of 10 LPA.

SHINNING STARS of ECE Deptt.

4th Year

1	1403331022	Anjali Mishra	84.15%
2	1403331046	Ayushi Singh	84.60%
3	1403331076	Kishan	83.65%

3rd Year

1	1503331064	Lakshay Panwar	85.45%
2	1503321025	Farhan Ahmad (B. Change)	80.70%
3	1503331034	Ashish Tyagi	79.85%

2nd Year

1	1603331119	SAKSHI KHUGSHAL	85.75%
2	1603331099	PRIYA GUPTA	85.65%
3	1603331026	ANKIT KUMAR MAURYA	85.35%

DIGITAL LITERACY PROGRAMME

As per the circular of AICTE, a training session on Digital Literacy Programme was organized at RKGIT on 17/7/2018. The training programme "Jaadu Ginni Ka" was delivered by Mr. Kuldeep from Learning Links Foundation (sponsored by Vodafone). In the two hour session basics of financial aspects with respect to borrowings, banking system, investments, Govt. schemes and Digital banking system (UPI, BHIM, USSD, e wallets etc) were discussed.

DIGITAL
LITERACY
PROGRAMME

आरकेजीआईटी में डिजिटल लिटरेसी प्रोग्राम आयोजित



आरकेजीआईटी मे डिजिटल लिटरेसी प्रोग्राम का आयोजन



Around 235 students were oriented as Master Trainers. These Master Trainers will train the remaining students of the campus. All the students will outreach to minimum 10 people in their communities. Thus this training programme will be very beneficial in creating awareness in the society about various government schemes and banking systems.

The students were happy to be a part of this training programme. The coordinator of the programme was Mr. Kunal Lala..

FAREWELL 2K18

The most pridelful moment for a college is to bid farewell to its passing out students. The Farewell party for the 2014-18 batch was organized on 2nd May 2018. The students of 3rd year organized this wonderful event. It was a nostalgic night as the glimpse of four long years at RKGIT ran through the minds of passing out students. The title for Mr. Fresher was given to Babu Chandramani and the title for Ms. Fresher was given to Astha Verma.

आरकेजीआईटी में अंतिम वर्ष के विद्यार्थियों का विदाई समारोह



-आईना संवाददाता- प्रो. चीके गुप्ता, निदेशक प्रो.आरपी

बताया कि इस वर्ष बच्चों को शैक्षिक के उपरान्त अन्य क्षेत्र में अपने प्रदर्शन को बरीयता देने के लिये प्रोत्साहित किया गया। इस आयोजन में विभिन्न नृत्य एवं संगीत प्रस्तुतियों के बाद अपने क्षेत्र में सर्वश्रेष्ठ बच्चों का सम्मान टाइटल एवं ट्रॉफी देकर किया गया। बाबू चन्द्रमणि को मि. फेयरवैल एवं आस्था वर्मा को मिस फेयरवैल घोषित किया गया। इस कार्यक्रम के

आरकेजीआईटी में फेयरवैल पार्टी का आयोजन



विद्यार्थियों का सम्मान टाइटल एवं ट्रॉफी देकर किया गया। बाबू चन्द्रमणि को मि. फेयरवैल एवं आस्था वर्मा को मिस फेयरवैल घोषित किया गया। इस कार्यक्रम के

आरकेजीआईटी में फेयरवैल 2018



विद्यार्थियों का सम्मान टाइटल एवं ट्रॉफी देकर किया गया। बाबू चन्द्रमणि को मि. फेयरवैल एवं आस्था वर्मा को मिस फेयरवैल घोषित किया गया। इस कार्यक्रम के

आरकेजीआईटी में फेयरवैल 2018 का आयोजन



विद्यार्थियों का सम्मान टाइटल एवं ट्रॉफी देकर किया गया। बाबू चन्द्रमणि को मि. फेयरवैल एवं आस्था वर्मा को मिस फेयरवैल घोषित किया गया। इस कार्यक्रम के

Prof. BK Gupta (Advisor, RKG Group), Prof. RP Maheshwari(Director, RKGIT), Shree HG Garg(DSW,RKGIT) graced the occasion with their valuable presence. They also motivated the students to contribute their knowledge to the society and always have a positive approach in life.

The coordinator of the programme was Mr. Pankaj Yadav.



आरकेजीआईटी में अंतिम : विद्यार्थियों का विदाई सम



आरकेजीआईटी में अंतिम : विद्यार्थियों का विदाई सम. The text in this block is partially obscured and difficult to read, but it appears to be a continuation of the event's description.

आरकेजीआईटी में अंतिम : विद्यार्थियों का विदाई सम. This block contains more text, likely providing details about the program and the speakers.

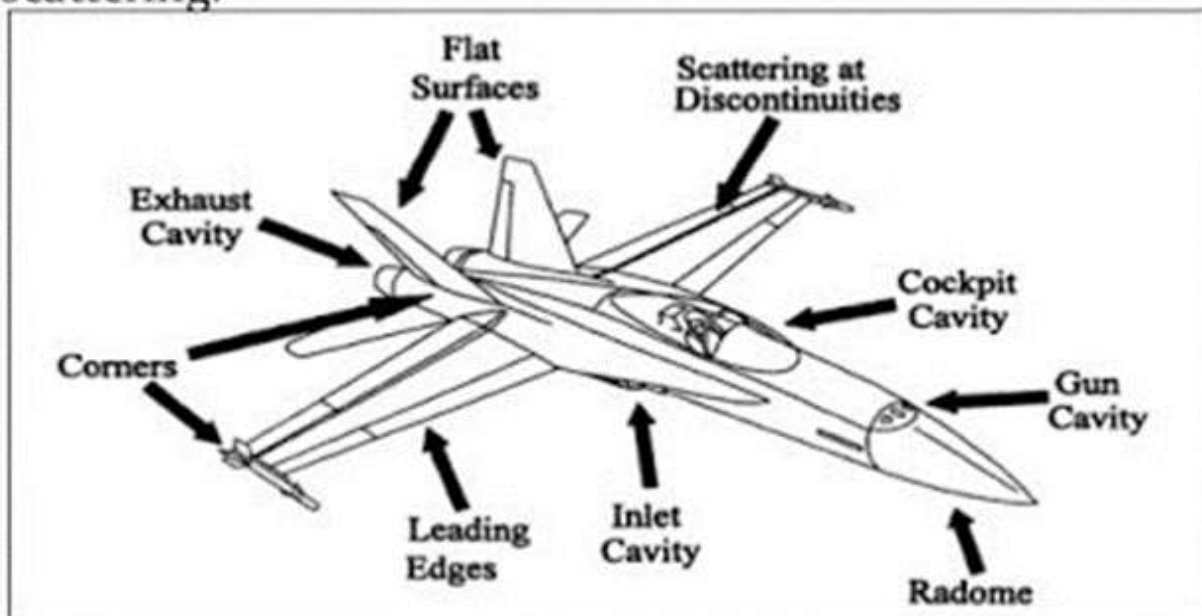


Faculty Technical Corner

Stealth Technology

Stealth technology also termed low observable technology (LO technology) is a sub-discipline of military tactics and passive electronic countermeasures, which cover a range of techniques used with personnel, aircraft, ships, submarines, missiles and satellites to make them less visible (ideally invisible) to radar. The goal of stealth technology is to make an airplane invisible to radar. There are two different ways to create invisibility: The airplane can be shaped so that any radar signals it reflects are reflected away from the radar equipment. The airplane can be covered in materials that absorb radar signals. In business, stealth mode is a company's temporary state of secretiveness, usually undertaken to avoid alerting competitors to a pending product launch or other business initiative.

Uses the principle of reflection and absorption as well as scattering.



Stealth aircraft are designed to avoid detection using a variety of technologies that reduce reflection/emission of radar, infrared, visible light, radio-frequency (RF) spectrum, and audio, collectively known as stealth technology. The United States Air Force introduced a radar-absorbent paint made from both ferrofluidic and nonmagnetic substances. By reducing the reflection of electromagnetic waves, this material helps to reduce the visibility of RAM-painted aircraft on radar. The cost to procure each B-2 was US\$737 million in 1997 dollars, based only on a fleet cost of US\$15.48 billion. The procurement cost per aircraft as detailed in GAO reports, which include spare parts and software support, was \$929 million per aircraft in 1997 dollars. The stealth bomber's peculiar shape deflects radio beams in both ways. ... The plane does emit radio energy when using its radar scanner or communicating with ground forces and other aircraft, but the radar signal is small and highly focused, making it less susceptible to detection. Beta particles (electrons) are more penetrating, but still can be absorbed by a few millimetres of aluminium. However, in cases where high energy beta particles are emitted shielding must be accomplished with low atomic weight materials, e.g. plastic, wood, water, or acrylic glass (Plexiglas, Lucite). Use Time Distance and Shielding to Protect Yourself. Putting distance and shielding between you and a radiation source is an immediately effective way of reducing your exposure. Reducing the time you are being exposed is another way. Use a Respirator or Face Mask if you are exposed to airborne sources. Despite their ability to penetrate other materials, in general, neither gamma rays nor x-rays have the ability to make anything radioactive. Several feet of concrete or a few inches of dense material (such as lead) are able to block these types of radiation.

Mr. Jassu Kumar
A.P., ECE

Student Technical Corner

Superconductors Face the Future

Superconductors and superconducting materials are metals, ceramics organic materials, or heavily doped semiconductors that conduct electricity without resistance.

Futuristic ideas for the use of superconductors, materials that allow electric current to flow without resistance, are myriad: long-distance, low-voltage electric grids with no transmission loss; fast, magnetically levitated trains; ultra-

high-speed supercomputers; super-efficient motors and generators; inexhaustible fusion energy - and many others, some in the experimental or demonstration stages.

But superconductors, especially superconducting electromagnets, have been around for a long time. Indeed the first large-scale application of superconductivity was in particle-physics accelerators, where strong magnetic fields steer beams of charged particles toward high-energy collision points.

Accelerators created the superconductor industry, and superconducting magnets have become the natural choice for any application where strong magnetic fields are needed - for magnetic resonance imaging (MRI) in hospitals, for example, or for magnetic separation of minerals in industry. Other scientific uses are numerous, from nuclear magnetic resonance to ion sources for cyclotrons.



A close-up view of a superconducting magnet coil designed at Berkeley Lab, which may be used in a new kind of high-field dipole magnet for a future energy upgrade of CERN's Large Hadron Collider.

Designing the future

"Enabling the accelerators of the future depends on developing magnets with much greater field strengths than are now possible," says GianLuca Sabbi of Berkeley Lab's Accelerator and Fusion Research Division (AFRD). "To do that, we'll have to use different materials."

Field strength is limited by the amount of current a magnet coil can carry, which in turn depends on physical properties of the superconducting material such as its critical temperature and critical field. Most superconducting magnets built to date are based on NbTi, which is a ductile alloy; the LHC dipoles are designed to operate at magnetic fields of about eight tesla, or 8 T — hundreds of thousands of times higher than Earth's magnetic field.

The LHC Accelerator Research Program (LARP) is a collaboration among DOE laboratories that's an important part of U.S. participation in the LHC. Sabbi heads both the Magnet Systems component of LARP and Berkeley Lab's Superconducting Magnet Program. These programs are currently developing accelerator magnets built with niobium tin (Nb₃Sn), a brittle material requiring special fabrication processes but able to generate about twice the field of niobium titanium. Yet the goal for magnets of the future is already set much higher.

"Among the most promising new materials for future magnets are some of the high-temperature superconductors," says Sabbi. "Unfortunately they're very difficult to work with." One of the most promising of all is the high-temperature superconductor Bi-2212 (bismuth strontium calcium copper oxide).

Superconductivity and superconductors have a wide scope in future. Some of the technological applications of superconductivity include:

- ❖ The production of sensitive magnetometers based on SQUIDs
- ❖ Fast digital circuits (including those based on Josephson junctions and rapid single flux quantum technology),
- ❖ Low-loss power cables
- ❖ RF and microwave filters (e.g., for mobile phone base stations, as well as military ultra-sensitive/selective receivers)
- ❖ Fast fault current limiters
- ❖ High sensitivity particle detectors, including the transition edge sensor, the superconducting bolometer, the superconducting tunnel junction detector, the kinetic inductance detector, and the superconducting nanowire single-photon detector

Krati Gupta

ECE-2nd Year

ALUMNI SPEAK

After completing 12th, that was time to go college. RKGIT was my choice and I got enrolled in it. During my college life, it was a place which I enjoyed. From my each successive year from 1st to final, there was something which I learned that will help me in my life. A good lab set up also improved my practical knowledge. I really thankful to my teachers who always supported me.



ECE department conducted lot of events from which I had learnt many things that helped me in my final year. I got placed in Progility Technologies Pvt Ltd from college platform. For this I am thankful to RKGIT.

Kishan

Progility Technologies Private Limited

Batch - 2014-18

CURRENT AFFAIRS

Science & Technology Current Affairs

- ❖ China launches two BeiDou-3 navigation satellites into space.
- ❖ JioCoin: Reliance Jio planning to launch its own cryptocurrency.
- ❖ Nyctibatrachus mewasinghi: New night frog species discovered in Western Ghats.
- ❖ China launches world's largest human genome research project
- ❖ ISRO to launch 31 satellites in single mission in January 2018
- ❖ India ranks 109th in mobile internet speed: Ookla
- ❖ ISRO developing compact launcher for smaller satellites
- ❖ TB, or not TB? At last, a urine test can diagnose it quickly
- ❖ 2 new ginger species discovered in northeast.
- ❖ Drought, heatwaves increasing in frequency, area in India: IISc Study
- ❖ Aditya L1 Mission: ISRO's first sun mission to take off in 2019
- ❖ China successfully launches remote sensing satellites
- ❖ Scientists create world's smallest data recorder from bacteria
- ❖ Noxeno: Nasal foreign body removal device launched
- ❖ Surge in oxygen levels led to explosion of life on earth: Study
- ❖ Kepler-90i: Eighth planet in Kepler-90 solar system discovered
- ❖ Lalji Singh: Father of DNA fingerprinting in India passes away
- ❖ MIT scientists create plants that can glow in dark
- ❖ Restarting dead people's hearts lets doctors reuse their organs
- ❖ Joke Christmas medical journal papers make unfunny bad science

BRAIN BUZZ

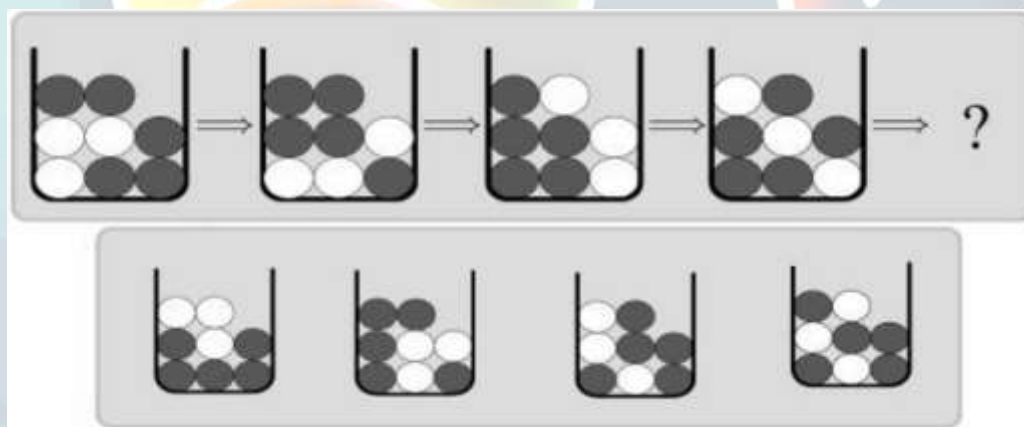
Ques 1: Google and NASA have joined hands to identify which two new planets around distant stars?

1. Kepler 80g, Kepler 90i
2. Kepler 90g, Kepler 80i
3. Kepler 81g, Kepler 90i
4. Kepler 90i, Kepler 82g

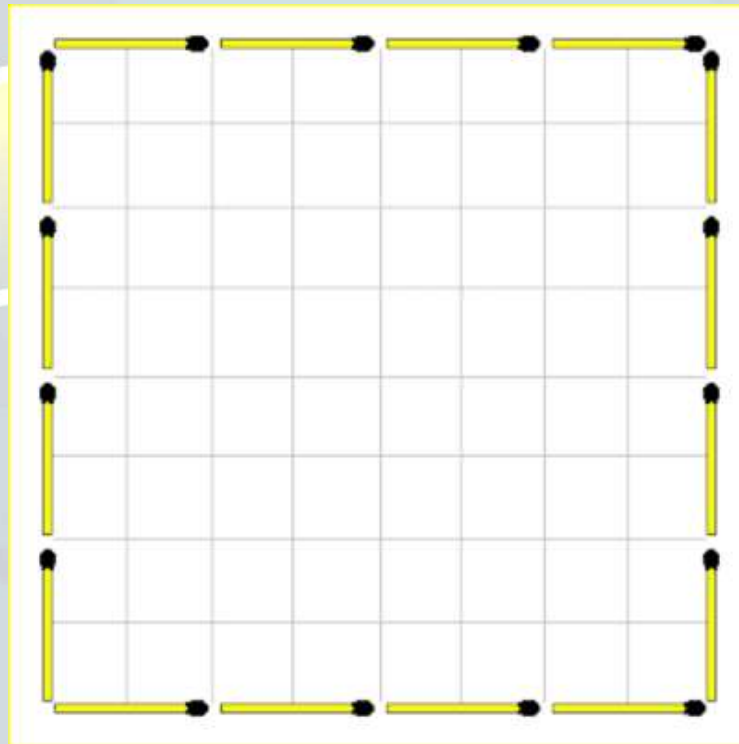
Ques 2: ISRO has developed small satellite launch vehicles to launch which type of satellites?

1. Low cost
2. Hi-tech
3. Only a and b
4. All of the above

Ques 3: Which shape will come next in the pattern?



Ques 4: How can we add 15 matchsticks in the picture below to create four areas of equal size?



Ques 5: Count the number of circles that contain a black dot.

