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UDGHOSE

THE VOICE OF ECE DEPARTMENT

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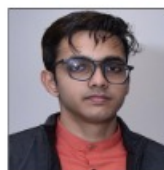
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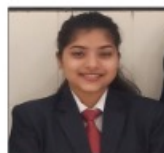
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VISION OF THE DEPARTMENT

To develop the Department into a full-fledged Center of learning in various fields of Electronics & Communication Engineering keeping in view the latest developments in the world.

MISSION OF THE DEPARTMENT

M1: To educate the students in Contemporary technologies in Electronics and Communication Engineering.

M2: To educate the students in Electronics & Communication Engineering to meet the Industrial needs.

M3: To educate the students in Electronics & Communication Engineering to meet the Societal needs.

ONLINE GUEST LECTURE ON COBOTICS

An online guest lecture on Cobotics was organized for the students of Department of ECE on 22nd December 2020. This lecture was jointly organized by Department of ECE, RKGIT and State Project Implementation Unit (SPIU). The key note speaker for this event was Dr. Anand Nayyar (Researcher and Scientist in Duy Tan University, Da Nang, Vietnam.). This lecture was conducted on zoom platform.

Cobotics (or, cobots) is the practice of using robotics to increase human ability rather than replace it. As you might expect, the term comes from fusing of “cooperation” and “robotics,” and is meant to highlight *collaboration* between a person and a robot. Instead of taking over individual jobs, cobots enhance and coexist with human production.

This was a very interesting and interactive session in which more than 250 students participated. The coordinators were Mr. Kunal Lala and Ms. Charu Tyagi.

Streaming Link : <https://www.youtube.com/watch?v=H30EwcYwDv8>



Raj Kumar Goel Institute of Technology
Department of Electronics & Communication

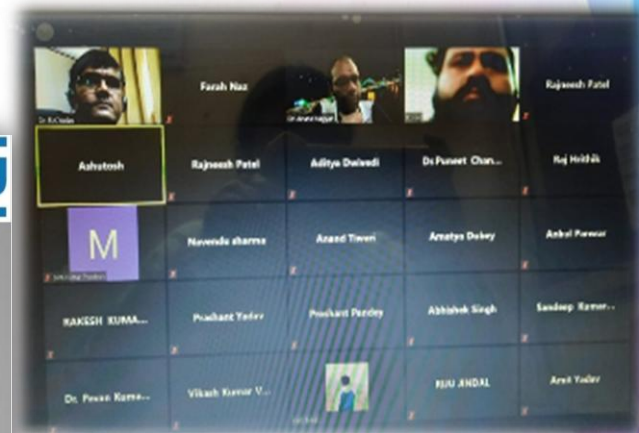
Online Guest Lecture
on
COBOTICS
Presented by:-
Dr. Anand Nayyar,
Researcher & Scientist in Duy Tan
University, Da Nang ,Vietnam
Organized Jointly by: RKGIT & SPIU

DATE: 22 DEC'20
TIME: 10AM

Coordinator:
Ms. Charu Tyagi & Mr. Kunal Lala

HOD
Dr. R.K. Yadav

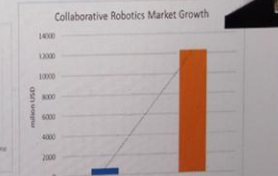
Director
Dr. D.R. Sonawale



Main trends. Collaborative robotics (I)

One of the main trends in the sector is the introduction of collaborative robots or cobots, which can share the workplace with people and learn new jobs. Collaborative robots are designed to perform jobs in collaboration with human employees. The so-called cobots are designed with a series of technical features that ensure the safety of employees when they are in direct contact with the robots, either deliberately or by accident. These features include light materials, rounded edges, and sensors at the base of the robot or on the joints to measure and control the strength and speed and make sure they do not exceed certain defined boundaries in the event of contact. These robots do not replace people but help them.

Traditional Industrial Robots	Collaborative Robots
They are not aware of the environment	They see and understand environment
Focused on precision and repeatability	Focused on flexibility and use
Complex programming	Simple programming
Specific to certain tasks	Flexible, able to adapt to tasks
Fast and powerful	Comparatively slow and powerful



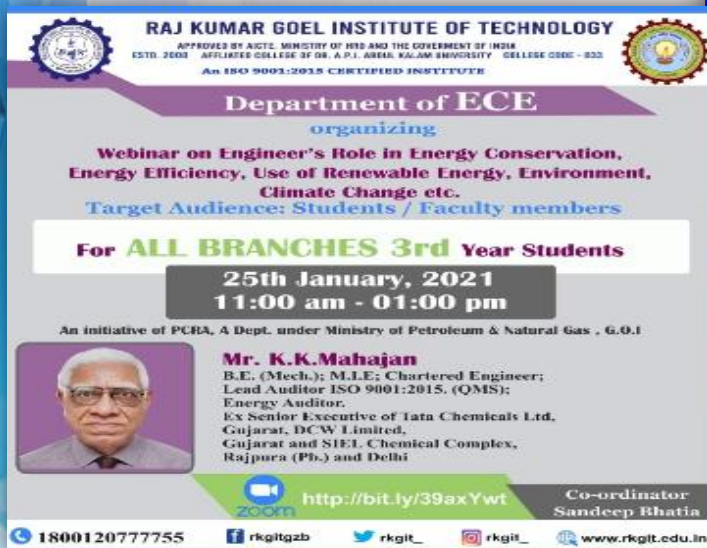
WEBINAR ON ENGINEER'S ROLE IN ENERGY CONSERVATION, ENERGY EFFICIENCY, USE OF RENEWABLE ENERGY, ENVIRONMENT, CLIMATE CHANGE

An online webinar on Engineers role in Energy Conservation was organized by the Department of ECE, RKGIT on 25th January 2021. In this webinar several faculty members and students of various streams participated.

The energy engineers are involved in designing, developing, and/or evaluating all energy related projects in an organization for cost reduction and improvement of energy efficiency. They are involved in designing and testing machineries, building new constructions, and/or remodelling the existing stages of construction for optimizing the energy supply in an efficient way. Apart from increasing energy efficiency, responsibilities of energy engineers also include creating and extracting energy from a variety of sources such as bio-fuels, nuclear power, hydro power, wind power, solar power, oil, gas, etc.

The key note speaker for the webinar was Mr. K K Mahajan (Ex Senior Executive of Tata Chemicals Limited.) The coordinator of the event was Mr. Sandeep Bhatia.

Streaming Link : https://youtu.be/FVS-FPR_z74?t=13



RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY
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ESTD. 2000 AFFILIATED COLLEGE OF DR. A.P.J. ABDEL KALAM UNIVERSITY, GELASE CODE - 832
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Department of ECE
organizing

Webinar on Engineer's Role in Energy Conservation, Energy Efficiency, Use of Renewable Energy, Environment, Climate Change etc.
Target Audience: Students / Faculty members

For ALL BRANCHES 3rd Year Students

25th January, 2021
11:00 am - 01:00 pm

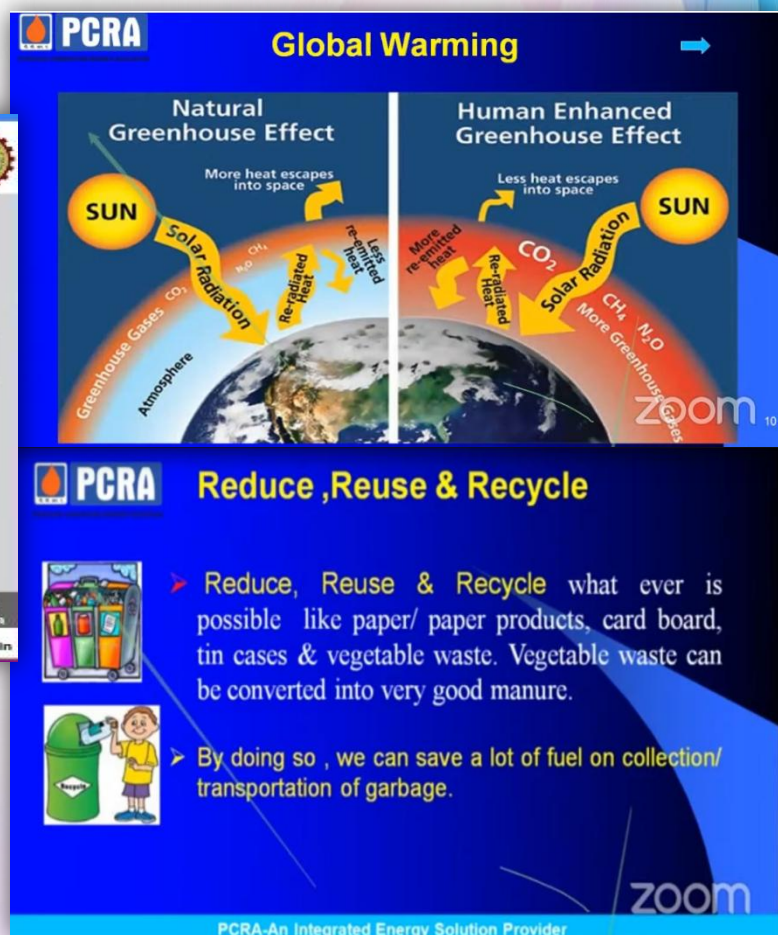
An initiative of PCRA, A Dept. under Ministry of Petroleum & Natural Gas, G.O.I

Mr. K.K.Mahajan
B.E. (Mech.); M.I.E.; Chartered Engineer;
Lead Auditor ISO 9001:2015, (QMS);
Energy Auditor,
Ex Senior Executive of Tata Chemicals Ltd.,
Gujarat, DCW Limited,
Gujarat and SIEL Chemical Complex,
Rajpura (Ph.) and Delhi

Co-ordinator Sandeep Bhatia

<http://bit.ly/39axYwt>

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Global Warming

Natural Greenhouse Effect
SUN → Solar Radiation → Earth → Re-radiated Heat → Atmosphere → Re-radiated Heat → Earth. More heat escapes into space.

Human Enhanced Greenhouse Effect
SUN → Solar Radiation → Earth → Re-radiated Heat → Atmosphere (with CO₂, CH₄, N₂O) → Re-radiated Heat → Earth. Less heat escapes into space.

Reduce, Reuse & Recycle

- Reduce, Reuse & Recycle what ever is possible like paper/ paper products, card board, tin cases & vegetable waste. Vegetable waste can be converted into very good manure.
- By doing so , we can save a lot of fuel on collection/ transportation of garbage.

PCRA-An Integrated Energy Solution Provider

MOU SIGNING BETWEEN DEPARTMENT OF ECE, RKGIT AND TELENOETICA LIMITED (LAGOS, NIGERIA)

A Memorandum of Understanding has been signed between the Department of ECE RKGIT and a Multinational Company (Telenoetica , Lagos Nigeria.) The CEO of the company Mr. Abhishek Srivastava visited the labs of Department of ECE and suggested to create an Advance Lab for ECE students. A technical agreement was also made.

According to the MoU a high tech Microwave and R F Testing lab will be established. Congratulating the department the Director of the Institute, Dr. D R Somashekar stated that this will be a very beneficial step for the research activities in department.

DR. R K Yadav , (HOD ECE) and Dr. Pavan Kumar Shukla appraised the media that ECE is the branch of opportunities and establishment of such modern lab will give more strength to the department for nurturing the Technocrats of the future.

बहुराष्ट्रीय टेलीकॉम कंपनी का आरकेजीआईटी संस्थान के बीच तकनीकी करार

सफलता

- हाईटेक माइक्रोवेव एंड आरएफ टेस्टिंग लैब की होगी स्थापना
- अनुबंध करार की सफलता के लिए आरकेजीआईटी ग्रुप के वाईसचेयरमैन अक्षत गोयल ने विभाग के सभी लोगों को दी शुभकामनाएं

अथाह संवाददाता

गाजियाबाद। आरकेजीआईटी संस्थान के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग और टेलीनोेटिका लिमिटेड



लागोसनाइजीरिया के बीच एडवांस्ड टेलीकॉम्युनिकेशन लैब स्थापित करने का अनुबंध करार हुआ। लेगोसनाइजीरिया की बहुराष्ट्रीय टेलीकॉम कंपनी टेलीनोेटिका लिमिटेड के मुख्य कार्यकारी अधिकारी अभिषेक श्रीवास्तव ने आरकेजीआईटी संस्थान में आकर यहाँ की लैब देखी और भविष्य में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग के स्टूडेंट्स के लिए एक एडवांस्ड टेलीकॉम लैब बनाने का

सुझाव दिया। टेलीनोेटिका लिमिटेड की तरफ से एक तकनीकी अनुबंध का करार भी किया गया। इस अनुबंध करार के अनुसार विभाग में एक हाईटेक माइक्रोवेव एंड आरएफ टेस्टिंग लैब स्थापित की जाएगी। इस अनुबंध पर विभाग को बधाई देते हुए संस्था के निदेशक डॉ डी आर सोमशेकर ने बताया कि इस लैब से स्टूडेंट्स और अध्ययकों के रिसर्च वर्क को नए आयाम हासिल होंगे। डॉ पवन शुक्ला ने बताया कि

बेहद उपयोगी होगी लैब



इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग के विभागाध्यक्ष डॉआर के यादव ने इस लैब को बेहद उपयोगी बताते हुए इसकी अपार संभावनाओं पर चर्चा करते हुए टेलीनोेटिका लिमिटेड का आभार व्यक्त किया व आने वाले समय में कंपनी से ऐसे और करार करने के लिए निरंतर प्रयासरत रहने का विचार व्यक्त किया।

इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग काफी लोकप्रिय इंजीनियरिंग विषय है। कोर्स स्टूडेंट्स के लिए बेहतरीन करियर विकल्प पेश करता है। सरकार भी भारत में इलेक्ट्रॉनिक्स उद्योगों के विकास के लिए निरंतर प्रयासरत है व नयी नीतियों की घोषणा भी कर रही है। उन्होंने बताया इस क्षेत्र में रोजगार की अपार सम्भावना है और आने वाले समय में बढ़ोत्तरी होगी। करार की सफलता के लिए आरकेजी ग्रुप के

वाईस चेयरमैन अक्षत गोयल ने विभाग को शुभकामनाएं प्रेषित की। संस्थान के एडवाइजर डॉ लक्ष्मण प्रसाद, डायरेक्टर एग्जीक्यूटिव डॉ डीकेचौहान, डायरेक्टर एकेडेमिक डॉ वीकेश कुमार, डीन स्टूडेंट वेलफेयर एचजी गर्ग एवं डॉ पुनीत चंद वास्तव आदि भी इस तकनीकी चर्चा में उपस्थित रहे एवं भविष्य में इस प्रोजेक्ट को नई ऊंचाइयों तक पहुँचाने के लिए विभाग को शुभकामनाएं दीं।

23 जनवरी, 2021

पृष्ठ- 6

प्रलयानकर का निर्भीक दैनिक

www.dainikpralayankar.in

द, लोनी, मुरादनगर, मोदीनगर, हापुड़, मेरठ से प्रसारित

चीनी खतरे से निपटने की तैयारी - पेज 5

मूल्य: 1.00 रुपये

इफा बहुराष्ट्रीय टेलीकॉम कंपनी व आरकेजीआईटी संस्थान के बीच तकनीकी करार

जरूरी है।'

यार में भूमिहीन छह हजार पट्टे जना है। बता दें बाद यह पहला नी ने इन लोगों की में यह एकमुश्त कार्ड होगा। वहीं, कि अगले साढ़े सप्त सरकार 2 ज्यादा लोगों को असम सरकार अधिक लोगों को आज प्रधानमंत्री कर चुके हैं। ही में 1 लाख से न किए हैं और स महीने 1 लाख प्रदान करने का

में जनता

की 31 जनवरी केन अभी भी बाकी है। ऐसे अर्थोरीटी ऑफ (ई) ने निर्माण का समय दे ने साफतौर पर मार्च तक हाइवे चाहिए। बताया कंपनीया इस नहीं हैं। वे मांग कम से कम 31 दिया जाए। मंत्रालय ने यह होली से पहले वे को जनता जाना है। ऐसे में एक्सप्रेसवे का होगा।



● प्रलयकर संवाददाता

गाजियाबाद। आरकेजीआईटी संस्थान के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग और टेलीनोटिका लिमिटेड लागोस नाइजीरिया के बीच एडवांस्ड टेलीकम्युनिकेशन लैब स्थापित करने का अनुबंध करार हुआ। लेगोस नाइजीरिया की बहुराष्ट्रीय टेलीकॉम कंपनी टेलीनोटिका लिमिटेड के मुख्य कार्यकारी अधिकारी अभिषेक श्रीवास्तव ने आरकेजीआईटी संस्थान में आकर यहां की लैब देखी और भविष्य में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग के स्टूडेंट्स के लिए एक एडवांस्ड टेलीकॉम लैब बनाने का सुझाव दिया। टेलीनोटिका लिमिटेड की तरफ से एक तकनीकी अनुबंध का करार भी किया गया। इस अनुबंध करार के अनुसार विभाग में एक हाई टैक

माइक्रोवेव एंड आरफ टेस्टिंग लैब स्थापित की जाएगी। इस अनुबंध पर विभाग को बधाई देते हुए संस्था के निदेशक डॉ.डीआर सोमशेकर ने बताया कि इस लैब से स्टूडेंट्स और अध्यापकों के रिसर्च वर्क को नए आयाम हासिल होंगे। इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग के विभागाध्यक्ष डॉ.आरके यादव ने इस लैब को बेहद उपयोगी बताते हुए इसकी अपार संभावनाओं पर चर्चा करते हुए टेलीनोटिका लिमिटेड का आभार व्यक्त किया व आने वाले समय में कंपनी से ऐसे और करार करने के लिए निरंतर प्रयासरत रहने का विचार व्यक्त किया। डॉ.पवन शुक्ला ने बताया कि इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग काफी लोकप्रिय इंजीनियरिंग विषय है। यह कोर्स स्टूडेंट्स के लिए बेहतरीन करियर विकल्प पेश करता है।

सरकार भी भारत में इलेक्ट्रॉनिक्स उद्योगों के विकास के लिए निरंतर प्रयासरत है। नयी नीतियों की घोषणा भी कर रही है। उन्होंने बताया इस क्षेत्र में रोजगार की अपार सम्भावना है और आने वाले समय में इसमें बढ़ोतरी होगी इस अनुबंध करार की सफलता के लिए आरकेजी ग्रुप के वाईस चेयरमैन अश्वत गोयल ने विभाग के सभी लोगों को शुभकामनाएं प्रेषित की। संस्थान के एडवाइजर डॉ. लक्ष्मण प्रसाद, डायरेक्टर एग्जीक्यूटिव डॉ. डी के चौहान, डायरेक्टर एकेडेमिक डॉ.वीकेश कुमार, डीन स्टूडेंट वेलफेयर एच जी गर्ग एंव डॉ.पुनीत चंद श्रीवास्तव आदि भी इस तकनीकी चर्चा में उपस्थित रहे एवं भविष्य में इस प्रोजेक्ट को नई ऊंचाइयों तक पहुंचाने के लिए विभाग को शुभकामनाएं दी।

INTERNATIONAL CONFERENCE ON ADVANCEMENT IN ELECTRONICS AND COMMUNICATION ENGINEERING –VIRTUAL CONFERENCE

An online International Conference on Advancement in Electronics and Communication Engineering was organized by the department of ECE on 21st -22nd January 2021. The papers were invited on the following fields :

1. Electronics Engineering
2. Electronics & Telecommunication Engg.
3. Information Technology
4. Electrical Engineering.

In the present world communication is providing to be backbone of all developments. The information is being done using digital electronics technology. To that end electronics devices play critical role in terms of volume and speed of information exchange. Although the last decade has seen a significant leap in this regard but a significant leap is still expected in this area.

This International Conference was a great opportunity for students, faculties, industry person to showcase their research work and a platform to gather so many different experts and develop many ideas in this Scenario.

The purpose and vision behind such events is the promotion of academic and research activities, as the status of an Institution is known by the research and development contribution which in turn makes the nation stronger and smarter. In this conference, academicians, technocrats and researchers got an opportunity to interact with eminent persons in the field of electronics & communication engineering. Efforts were made to invite leading personality to deliver plenary talks export and lectures.

The Chief Guest of the Inaugural Ceremony was Dr. D S Chauhan (Former Vice Chancellor APJAKTU). The key note speakers were Dr. S B Goyal (Director, Faculty of Information Technology, City University, MALAYSIA.), Dr. Jonathan Montero (Quality Assurance Head / Lecturer Electrical and Electronics Section Higher College of Technology, Muscat).

In the International Conference more than 80 papers were published by academicians and research scholars across the globe. The selected papers were published in UGC listed Journals like ICTAT and IJERA.

Streaming Link: <https://www.youtube.com/watch?v=7O15XIBICJU>



Estd.: 2000

ORGANIZING COMMITTEE



(Dr. Pawan Kumar Shukla)
Convenor



(Mr. Sandeep Bhatia)
Co-Convenor



(Ms. Hasmat Usmani)
Co-Convenor



(Dr. Neha Goel)
Organizing Secretary



Ms. Renu Rani
Invitation

Technical Paper Selection



Dr. Himani Mittal



Mr. Vaibhav Sharma



Mr. Rajneesh Patel



Mr. Ajit Singh Rathore



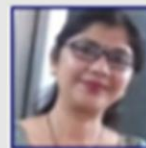
Ms. Riju Jindal
Registration



Mr. Anuj Kumar
Budget



Ms. Richa Gupta
Feedback
& Certificate



Ms. Charu Tyagi
Feedback
& Certificate



Mr. Pawan Pandey
Media Coordinator



Mr. Kunal Lala
Anchoring



Ms. Rashika Verma
Anchoring



Mr. Hitesh Choudhary
Publicity Coordinator



Mr. Maneesh Kr. Srivastava
Record Maintenance
& Souvenir Design



Ms. Farah Naz
Record Maintenance
& Souvenir Design



Mr. Deepak Kumar
Youtube Streaming
& Meeting Link



Mr. Sachin Tyagi
Youtube Streaming
& Meeting Link



Mr. Rakesh Kumar
Youtube Streaming
& Meeting Link



Mr. Anil Verma
Press & Printing



Mr. Vikrant Verma
Press & Printing

आरकेजीआईटी में दो दिवसीय अंतर्राष्ट्रीय कांफ्रेंस का समापन



● प्रलयंकर संवाददाता

गाजियाबाद। आरकेजीआईटी संस्थान के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग द्वारा दो दिवसीय अंतर्राष्ट्रीय कांफ्रेंस का सफलतापूर्वक समापन हुआ। इस कांफ्रेंस का आयोजन ऑनलाइन डिजिटल माध्यम से किया गया था। एडवांसमेंट इन इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग (ईसीई-2021) नामक इस कांफ्रेंस में देश विदेश से लगभग 110 शोध प्रपत्रों का चयन किया गया। कांफ्रेंस में देश विदेश से लगभग 50 प्रतिभागियों ने ऑनलाइन प्लेटफॉर्म पर अपनी उपस्थिति दर्ज की जिनमें मलेशिया, नाइजीरिया, फिलीपीन्स, मस्कट व दक्षिण अफ्रीका जैसे देशों से प्रतिभागी शामिल रहे।

इस कांफ्रेंस में संस्था के निदेशक डॉ.डी आर सोमशेकर ने सभी अतिथियों व प्रतिभागियों का स्वागत किया। अंतर्राष्ट्रीय कांफ्रेंस का शुभारम्भ यूपी टी यू के पूर्व एवं प्रथम कुलपति रहे डॉ.डी एस चौहान द्वारा किया गया। कार्यक्रम में टेलीनोटिका के मुख्य कार्यकारी अधिकारी अभिषेक श्रीवास्तव जो की लागोस नाइजीरिया से कार्यक्रम में शिरकत करने आये विशिष्ट अतिथि के रूप में उपस्थित रहे। इस

कांफ्रेंस के माध्यम से इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग व इससे जुड़े रिसर्च क्षेत्र में स्टूडेंट्स के बढ़ते रुझान पर प्रकाश डालते हुए विभागाध्यक्ष डॉ. आर के यादव ने आने वाले समय में इस क्षेत्र में अपार संभावनाओं का विवरण दिया।

इस अंतर्राष्ट्रीय कांफ्रेंस के मुख्य आयोजक रहे डॉ.पवन कुमार शुक्ला ने सभी प्रतिभागियों व अतिथियों का धन्यवाद यापन करते हुए कांफ्रेंस की सफलता के लिए कार्यक्रम की अध्यक्ष रही डॉ हिमानी मित्तल व संदीप भाटिया, फरह नाज, डॉ.नेहा गोयल, हशमत उस्मानी व अन्य सभी को बधाई दी। इस अंतर्राष्ट्रीय कांफ्रेंस की सफलता के लिए आरकेजी ग्रुप के वाईस चेयरमैन अक्षत गोयल ने विभाग के सभी लोगों को शुभकामनाएं प्रेषित की। संस्थान के एडवाइजर डॉ. लक्ष्मण प्रसाद, डायरेक्टर एजीक्यूटिव डॉ.डी के चौहान, डायरेक्टर एकेडेमिक डॉ.वीकेश कुमार, डीन स्टूडेंट वेलफेयर श्री एच जी गर्ग एवं डॉ. पुनीत चंद श्रीवास्तव आदि भी इस समापन समारोह में उपस्थित रहे एवं भविष्य में ऐसे कार्यक्रमों का आयोजन करने के लिए प्रयासरत रहने के लिए प्रेरित किया।

आरकेजीआईटी में दो दिवसीय अंतर्राष्ट्रीय कांफ्रेंस का सफलतापूर्वक समापन

चयन

● ईसीई-2021 कांफ्रेंस में देश विदेश से लगभग 110 शोध प्रपत्रों का चयन किया गया

अथाह संवाददाता

गाजियाबाद। आरकेजीआईटी संस्थान के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग द्वारा दो दिवसीय अंतर्राष्ट्रीय कांफ्रेंस का सफलतापूर्वक समापन हुआ। इस कांफ्रेंस का आयोजन ऑनलाइन डिजिटल माध्यम से किया गया था।



कांफ्रेंस में देश विदेश से लगभग 110 शोध प्रपत्रों का चयन किया गया। कांफ्रेंस में देश विदेश से लगभग 50 प्रतिभागियों ने ऑनलाइन प्लेटफॉर्म पर अपनी उपस्थिति दर्ज की जिनमें मलेशिया, नाइजीरिया, फिलीपीन्स, मस्कट व दक्षिण अफ्रीका जैसे देशों से प्रतिभागी शामिल रहे।

में उपस्थित रहे। इस कांफ्रेंस के माध्यम से इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग व इससे जुड़े रिसर्च क्षेत्र में स्टूडेंट्स के बढ़ते रुझान पर प्रकाश डालते हुए विभागाध्यक्ष डॉ आर के यादव ने आने वाले समय में इस क्षेत्र में अपार संभावनाओं का विवरण दिया। इस अंतर्राष्ट्रीय कांफ्रेंस के मुख्य आयोजक रहे डॉ पवन कुमार शुक्ला ने सभी प्रतिभागियों व अतिथियों का धन्यवाद यापन करते हुए कांफ्रेंस की सफलता के लिए कार्यक्रम की अध्यक्ष रही डॉ हिमानी मित्तल व संदीप भाटिया, फरह नाज, डॉ.नेहा गोयल, हशमत उस्मानी व अन्य सभी को बधाई दी। इस अंतर्राष्ट्रीय कांफ्रेंस की सफलता के लिए



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Department of
Electronics & Communication Engineering
organizing an

INTERNATIONAL
CONFERENCE

on

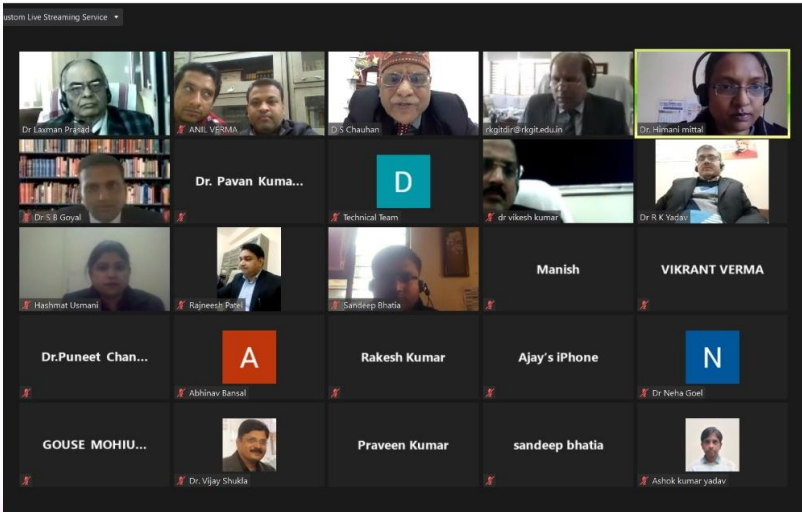
Advancement in Electronics & Communication Engineering
AECE - 2020

on

Jan 21- 22, 2021.

2 Days to go ...

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FACULTY/DEPARTMENTAL ACHIEVEMENTS

1. The Department of ECE got NBA Accreditation for three years i.e till June 2024. The Department is thankful to all the Internal and External stakeholders.



2. Mr. Kunal Lala attended a 5 days online FDP on “IoT and Machine Learning” during January 25th to 30th 2021 organized by Department of ECE, IPEC, Ghaziabad.
3. Ms. Hashmat Usmani attended a 7 days online FDP on “Advance Excel with Data Visualisation” during December 21st to 27th 2021 organized by E&ICT Academy IIT Kanpur.
4. Ms. Ajit Singh Rathor attended an online FDP on “Advance “ICT Initiatives in Technical Education”” during February 8th to 13th 2021 organized by SWAYAM-NPTEL Local Chapter, Guru Nanak Dev Engineering College, Ludhiana.
5. Ms. Farah Naz participated in research study on “Impact of Faculty Development Programmes (FDPs)” which was conducted by National Institute of Technical Teachers’ Training and Research, Bhopal.
6. Ms. Farah Naz participated in a 5 days lecture series on “Incubation, Innovation, Entrepreneurship and Startup” which was conducted by College of Engineering, Roorkee.

7. Ms. Farah Naz participated in AICTE sponsored short term course on “ Challenges, Opportunities and Emerging Trend in the Field of High Voltage and Electrical Insulation organized by Department of Electrical Engineering , IIT BHU.
8. The faculties of the department are always engaged in enhancing their knowledge by attending various Faculty Development Programmes/ Seminars etc. Here are some glimpses of faculty achievements like FDPs, Webinars, Research Publications, and Patents etc.

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Congratulations
Dr. Ravindra Kumar Yadav
Professor & HOD
ECE Department

Research Publications

Published research on "Vehicle Detection in Intelligent Transport System under Hazy Environment: A Survey" IET Image Processing, Volume: 14, Issue: 1, 2020.

Published research on "Microstrip Patch Antenna with Circular Polarization Loaded With Drum Sticks Slots", International Journal of Sensors Wireless Communication and Control, Volume: 9, Issue: 2, 2019.

Published research on "Remote Monitoring System For Cold Storage Warehouse using IOT", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume: 8, Issue: V, May 2020.

You are an inspiration to us

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5km Stone, Delhi - Meerut Road, Near Rajnagar Ext. Crossing, Ghaziabad, UP, Ph : (0120) 2788273

Congratulations

Students

Shivanshu Shrivastava (ECE), Himanshu Tripathi (CSE), Anshu Gupta (CSE), Arpita Gupta (ECE), Dr. Himani Mittal (Associate Professor, ECE)

Under the guidance of

Dr. Himani Mittal
(Associate Professor, ECE)

TITLE OF INVENTION

"SMART CUISINE SELECTION VIA SENTIMENT ANALYSIS USING MACHINE LEARNING TECHNIQUES"

It has been published by India Patent Office Under the assistance of NRDC (Govt. of India)

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Congratulations
For
Successfully Completed

RESEARCH PUBLICATIONS

International / National Journal

"Eight directional Smart Reconfigurable Router Design for Network on Chip (NoC)".

"Multidirectional Reconfigurable Router for Network on Chip (NoC)".

"AI technique for resolving security in highly sensitive domain in automated face recognition system using Artificial Neural Network".

"Smart Semi buffer less heterogeneous Router for Mesh N.O.C".

"CMOS 0.35 μ m low drop out voltage regulator using differentiator technique".

Book Chapters

"Finite State Machine Decomposition for Low Power".

"Scalable and low power N.O.C design for reconfigurable system".

"Implementation of Eight directional Reconfigurable Routers for N.O.C".

Dr. Himani Mittal
(Associate Professor, ECE)

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Congratulations!
FOR

PATENT

Dr. Neha Goel
(Associate Professor, ECE)

One Patent (Patent number: 2020101595), "Digital Signal Processing Technique In Wireless Sensor And Actuator Networks For Long-Range Environmental Monitoring", published in Australian Patent in 26th Aug 2020.

RESEARCH PUBLICATIONS

Paper Published, "Automatic Temperature Regulator", International Conference, on Renewable Energy and Green Technology, ICREGT, organized by SRM University on 9th -10th Oct,2020.

FDP

Completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "3D Printing & Design" from 6th Oct to 10th Oct 2020 at IPS Academy, Institute of Engineering and Science Indore (M.P.).

Attended 5-days FDP on "Outcome based education and NBA Accreditation Process" held at MNIT Jaipur during October 19 to 23, 2020.

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Congratulations
For
Successfully Completed



Ms. Renu Rani
(Assistant Professor, ECE)

RESEARCH

- "Image Enhancement Using MATLAB" in International Journal of Scientific Research in Engineering and Management (JSREM).
- "IMAGE ENHANCEMENT USING SPATIAL DOMAIN FILTER THROUGH MATLAB" in International Journal of Creative Research Thoughts (IJCRT).

FDP

- Engineering Education & the Industry : A Post COVID-19 Perspective"
- "COMPUTATIONAL TOOLS ON ENGINEERING AND RESEARCH : OPPORTUNITIES AND CHALLENGES".

ONLINE COURSES

- Spoken Tutorial Project, IIT, Bombay, Funded by national Mission on Education Through ICT, MHRD, Govt. of India.

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Congratulations

RESEARCH PUBLICATIONS



Mr. Anuj Kumar
(Assistant Professor, ECE)

Anuj Kumar published the paper titled "Embedded Based Milk Adulteration Detection & Live Monitoring Using Internet of Things (IoT) in International Research Journal of Engineering and Technology (IRJET).

Anuj Kumar published the paper titled "HEALTH AND WELL-BEINGMOBILE APPLICATION USING ANDROID TECHNOLOGY"

Anuj kumar published the paper titled "HEALTH MONITORING SYSTEM with GPS" in International Research Journal of Engineering and Technology (IRJET).

FDP

Five Days online Faculty Development Program on the topic "Engineering Education & the Industry

one week online Faculty Development Program on the topic " COMPUTATIONAL TOOLS ON ENGINEERING AND RESEARCH : OPPORTUNITIES AND CHALLENGES"

Two days online Faculty Development Program on the topic "Artificial Intelligence in Healthcare"

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Congratulations!
For
Successfully Completed

RESEARCH TRAINING PROGRAM

CSIR-NEIST, Jorhat

ONLINE COURSE ON

"Remote Sensing & Digital Image Analysis"
from IIRS-ISRO, Dehradun

FDP ON

Emerging Trends in VISI Design (TEQIP-III sponsored STTP) from NIT, Surat

STTP

IIIT Bhubaneswar, Odisha



Ms. Farah Naz
(Assistant Professor, ECE)

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STUDENT ACHIEVEMENTS / PARTICIPATION IN YEAR 2020-21

S.No.	Name of Students	Status	Event /Title	Venue
1	Ridam Bhalla	Participation (Scored 90%)	Late Dr. A.P.J. Abdul Kalam Quiz	Online
2	Arun Kumar	Participation (score 100%)	Dr. A.P.J. Abdul Kalam Quiz by RKGIT	Online
3	Richa Sharma	Completed	Incredi	Art of living
4	Suman Kumari	Completed	Machine learning through deep neural architecture	RKGIT
5	Chhavi Rathore	Completed	National Level Digital Electronic Quiz under AECE	RKGIT
6	Suman Kumari	Complete	National level digital electronic quiz under AECE	RKGIT
7	Suraj Kumar Prajapati	Participation (scored 84%)	National Level Digital Electronics Quiz Competition Organized by RKGIT	RKGIT
8	Chhavi Rathore	Completed	National Level Digital Electronic Quiz under AECE	RKGIT
9	Pushpendra Srivastava	Completed	Embedded Systems Training	Brain Booster Training Institute
10	Chhavi Rathore	Completed	Embedded System Training	Brain Booster Training Institute
11	Chhavi Rathore	Completed	Impact of Neuroscience on Education	RKGIT
12	Vinay Tiwari	Completed	Embedded System	Brain Booster Training Institute
13	Suraj Kumar Prajapati	Participation (scored 84%)	National Level Digital Electronic Quiz Competition Organized by RKGIT	RKGIT
14	Arpita Gupta	Participation	Art wrangle I I I	Online
15	Rishabh Pal	Completed	Android Development	Online

16	Arpita Gupta	Participation	Webinar on Machine Learning through Deep Neural Architectures	Online
17	Arpita Gupta	Participation (scored 100%)	National level digital electronics quiz competition organized by RKGIT	Online
18	Arun Kumar	Completed	Python by coursera	Online
19	Rishabh Pal	Completed	Amazon Web Services	Online
20	Ridam Bhalla	Completed	Internet Of Things	Online (Internshala)
21	Arpita Gupta	Participation	Universeofarts2020	Online
22	Pushpendra Srivastava	Completed	Arduino Training	Kavedia Sir
23	Chhavi Rathore	Completed	Programming for Everybody (getting started with python)	Coursera
24	Vinay Tiwari	Completed	Basic C Programming	Kavedia Sir
25	Pushpendra Srivastava	Completed	Internet of Things	Kavedia Sir
26	Arpita Gupta	Third	Imaginative Artsy	Online
27	Vinay Tiwari	Completed	Complete Python 3	Udemy
28	Vinay Tiwari	Completed	Internet of Things	Coursera
29	Vinay Tiwari	Completed	Introduction to Programming with MATLAB	Coursera
30	Vinay Tiwari	Completed	HTML5	Udemy
31	Richa Sharma	Participation	International Level Quiz on “International Yoga Day”	Online
32	Vinay Tiwari	Completed	Core Python	Kavedia Sir
33	Richa Sharma	Participation	National Level Quiz on COVID-19	Online

34	Richa Sharma	Participation	Three Phase Induction Motor	Online
35	Vinay Tiwari	Completed	Programming for Everybody(Getting Started with Python)	Coursera
36	Vinay Tiwari	Completed	Introduction to Python	Coursera
37	Richa Sharma	Participation	Machine Learning	Online
38	Suman Kumari	Completed	Three Phase Induction Motor	Singhgad Institute of Technology
39	Richa Sharma	Completed	Technicals	Coursera
40	Vinay Tiwari	Completed	QUIZ	Learners Arena
41	Vinay Tiwari	Completed	Webinar on Machine Learning	CETPA
42	Richa Sharma	Participation	Basic Electrical Engineering	Online
43	Richa Sharma	Participation	Java & J2EE	Online
44	Richa Sharma	Participation	Krishnasmay Paadasala Online Quiz-2020	Online
45	Richa Sharma	Participation	Mobile Application Development	Online
46	Richa Sharma	Participation	Road Transport and Safety	Online
47	Richa Sharma	Participation(scored 87%)	Mathematics	Online
48	Richa Sharma	Participation	Electrical DC Machines	Online
49	Arun Kumar	Completed	Computer system security by Electronics & ICT Academy, IIT Kanpur	Online
50	Vinay Tiwari	Completed	Google Digital Unlocked	Online
51	Richa Sharma	Completed	Moralities of Everyday Life	Coursera
52	Richa Sharma	Completed	Programming for Everyday (Getting started with Python)	Coursera
53	Richa Sharma	Completed	Core Arduino	Kavedia Sir
54	Vinay Tiwari	Completed	Social Media Marketing	Skilling You

PLACEMENT GLIMPSES 2021 BATCH

S. No.	Roll No.	Name of The Students	Branch	Name of the Company	Package Offered (Lakh Per annum)
1	1703331061	Mandvi Tripathi	ECE	Unthinkable Solutions (Daffodil Software)	5 LPA
2	1703331094	Riya Bajpai	ECE	ELC Labs Private Ltd.	2.40 LPA
3	1703331055	Krati Gupta	ECE	Calcom Vision Ltd.	1.8
4	1703331020	Anmol Kukreja	ECE	VVDN Technologies	3.2
5	1703331110	Shreya Soni	ECE	VVDN Technologies	3.2
6	1703331123	Vishal	ECE	VVDN Technologies	3.2
7	1703331051	Kanika Rawat	ECE	Propel Guru	2.4
8	1703331053	Katyayani Bhardwaj	ECE	Propel Guru	2.4
9	1703331074	Prakhar Verma	ECE	Propel Guru	2.4
10	1703331097	Satyansh Rai	ECE	Propel Guru	2.4
11	1703331012	Akshat Mitra	ECE	Cognizant Technology Solutions	4
12	1703331020	Anmol Kukreja	ECE	Cognizant Technology Solutions	4
13	1730931002	Arpit Kumar Sharma	ECE	Cognizant Technology Solutions	4

14	1703331033	Bhumika Gaur	ECE	Cognizant Technology Solutions	4
15	1703331037	Disha Srivastava	ECE	Cognizant Technology Solutions	4
16	1703331051	Kanika Rawat	ECE	Cognizant Technology Solutions	4
17	1703331099	Shaswat	ECE	Cognizant Technology Solutions	4
18	1703331108	Shrayansh Gupta	ECE	Cognizant Technology Solutions	4
19	1703331109	Shreya Sharma	ECE	Cognizant Technology Solutions	4
20	1703331110	Shreya Soni	ECE	Cognizant Technology Solutions	4
21	1703331118	Varun Sharma	ECE	Cognizant Technology Solutions	4
22	1703331121	Vipul Kumar Upadhyay	ECE	Cognizant Technology Solutions	4
23	1703331123	Vishal	ECE	Cognizant Technology Solutions	4
24	1703331037	Disha Srivastava	ECE	TCS	3.36
25	1703331047	Harshita Singh	ECE	TCS	7
26	1703331099	Shaswat	ECE	TCS	3.36
27	1703331095	Rupal Srivastava	ECE	TCS	3.36
28	1703331001	Aashutosh Bhardwaj	ECE	TCS	3.36
29	1703331004	Abhinav Singh	ECE	TCS	3.36

30	1703331005	Abhishek Dixit	ECE	TCS	3.36
31	1703331023	Arpita Gupta	ECE	TCS	3.36
32	1703331028	Ashutosh Singh	ECE	TCS	3.36
33	1703331044	Harsh Tyagi	ECE	TCS	3.36
34	1703331056	Kumar Ashutosh Tripathi	ECE	TCS	3.36
35	1703331090	Rishabh Pal	ECE	ANR Software	2.3
36	1703331082	Priyal Goel	ECE	Ginger Webs Pvt Ltd	2.4 - 4.8
37	1703331088	Richa Singh	ECE	uCertify	3.08
38	1703331015	Ananya Gupta	ECE	Mobiloitte	2.04
39	1703331114	Suraj Kumar Prajapati	ECE	Mobiloitte	2.04
40	1703331016	Ananya Sharan	ECE	Mobiloitte	2.04
41	1703331074	Prakhar Verma	ECE	Mobiloitte	2.04
42	1703331102	Shivam Kumar Yadav	ECE	Mobiloitte	2.04
43	1703331120	Vibhanshu Mishra	ECE	Mobiloitte	2.04
44	1703331065	Mriga Khanna	ECE	NTT Data	3.50
45	1703331016	Ananya Sharan	ECE	NTT Data	3.5

46	1703331021	Anup Singh Yadav	ECE	Black N Green Mobile Solutions	5.5
47	1703331048	Himanshu Kumar Singh	ECE	AppSquadz Software Pvt. Ltd.	2-3
48	1703331119	Varun Srivastava	ECE	AppSquadz Software Pvt. Ltd.	2-3
49	1703331054	Komal Yadav	ECE	Savantis India	2.2
50	1703331114	Suraj Kumar Prajapati	ECE	NTT Data	3.5
51	1703331068	Nikita Upadhyay	ECE	Ginesys	2.4 - 3
52	1703331088	Richa Singh	ECE	Ginesys	2.4 - 3
53	1703331055	Krati Gupta	ECE	SmartBrains	2.7
54	1703331030	Ayush Pandey	ECE	SmartBrains	2.7
55	1703331043	Harsh Mishra	ECE	Planetspark	5.9 - 7
56	1703331120	Vibhanshu Mishra	ECE	Wipro	3.5



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Dept - ECE, Batch - 2021

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Calcom Vision Ltd.

Batch - 2021
Dept. - ECE

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FACULTY TECHNICAL CORNER

WEARABLE BIOSENSORS

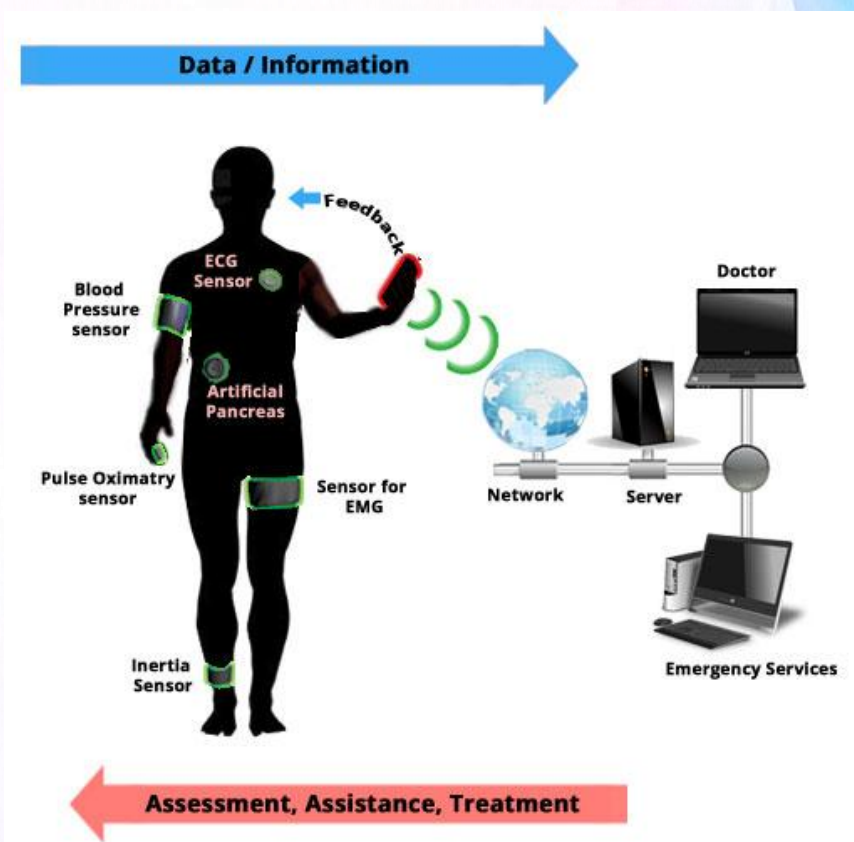
Wearable Biosensors (WBS) are gaining endless interest nowadays and today they promise to be one of the great developments in the sector of wearable health technology. The use of wearable monitoring devices or wearable biosensors that allow constant monitoring of physiological signals is essential for the advancement of both the diagnosis and treatment of diseases. Wearable systems are devices that allow physicians to overcome the limitations of technology and provide a response to the need for monitoring individuals over weeks or months.

Wearable Biosensors: “Wearable’s + Biosensors”

Wearable Biosensors is generally a combination of wearable’s and biosensors. Wearables are objects that can be worn on the body. For e.g. smart watches, clothes, bandages, tattoos, patches, spectacles, rings etc. are some wearable’s. While, Biological Sensors in short Biosensors is a device made up of transducer, biosensor reader device and a biological element. Here the biological element can be an antibody, enzyme, or a nucleic acid.

The function of the biological element is to interact with the analytics being tested and the biological responses are converted to an electrical signal by the transducer.

Depending on the applications, biosensors are also known popularly by the names like immunosensor, optrodes, biochips, glucometers and biocomputer.



Biosensor reader device are responsible for the display of the results. This is considered to be the most expensive part of the biosensor. Known manufacturers of biosensor electronic readers include Gwent Biotechnology Systems, Rapid Labs and PalmSens.

WBS are digital devices that can be worn on the body in the form of wearable systems or devices such as smart shirts, smart watches, thin bandages or tattoos —allowing blood glucose levels, blood pressure, heart beat rate and other biometric data to be measured continuously and constantly.

This real time information is then sent wirelessly to healthcare providers or monitors. Wearable biosensors are being developed today to bring out a healthcare reform. Wearable Biosensors creates a two way feedback between doctors and patients. These devices can transform the major diseases from episodic and inefficient continuous monitoring. WBS is a rapidly growing wearable health technology sector. As a result, in the coming 10 years' time, things will look really different than they look today.

Based on the **Transparency Market Research**, the market value for wearable biosensors is huge; and it is said that it will reach to a market value of \$27.6 billion by 2022. The biosensors market is expected to witness considerable growth owing to its wide array of applications in cardiac monitoring, diabetes monitoring, agriculture, bio-defence practices, environmental and drug discovery.



Ms. Farah Naz
(AP, ECE)

STUDENT TECHNICAL CORNER

EDGE COMPUTING

You all might have heard about cloud computing ,one of the most widespread trends is cloud computing — the form of data storage and processing where files are stored on remote data centers and can be accessed anytime and from any device. However, cloud computing is not the only form of distributed computing. Now, edge computing is majorly used in various ways too.

Now you might be thinking what edge computing is all about and why it is emerging as a new technology?

Edge computing is the form of data computing where the data is distributed on decentralized data centers, but some pieces of information are stored at the local network, at the “edge”.

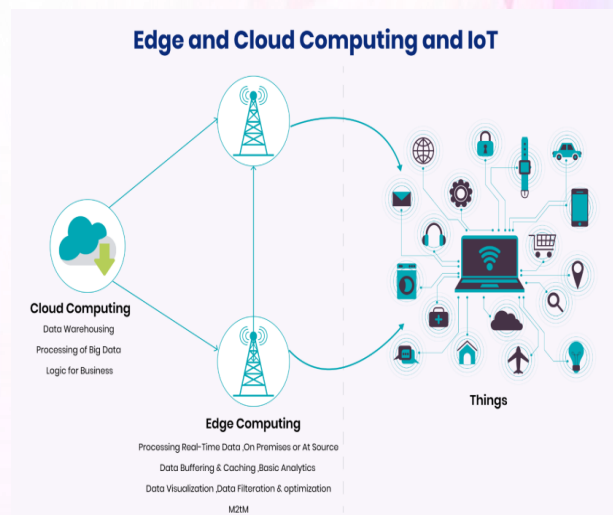
Here edge is a bit of a fuzzy term. Let's understand it with an example: a user's computer or the processor inside of an IoT camera can be considered the network edge, but the user's router, ISP, or local edge server are also considered the edge.

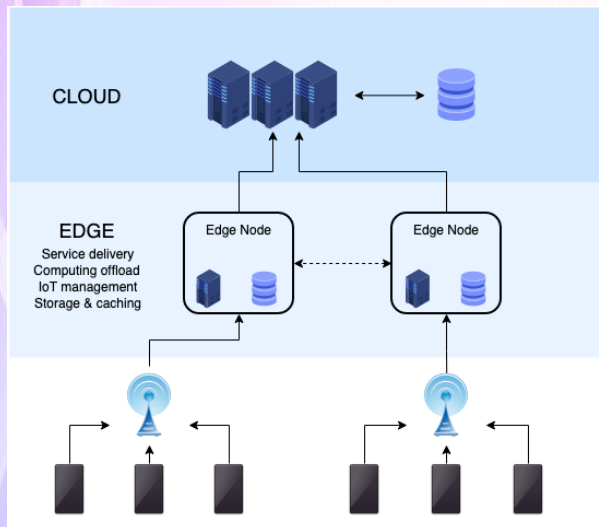
The important takeaway is that the edge of the network is geographically close to the device, unlike origin servers and cloud servers, which can be very far from the devices they communicate with. Edge computing moves computing closer to end users to minimize the distance that data has to travel, while still retaining the centralized nature of cloud computing.

Two drivers of edge technology are:

High-speed operations and Processes that generate large amounts of data Edge computing is widely taken in use nowadays as edge computing helps minimize bandwidth use and server resources. Bandwidth and cloud resources are finite and cost money.

Also, a company can use edge computing to process and analyze their data at the edge, which makes it possible to do so in real time.





Edge computing can be incorporated into a wide variety of applications, products, and services.

A few possibilities include:

IoT devices: Smart devices that connect to the Internet can benefit from running code on the device itself, rather than in the cloud, for more efficient user interactions.

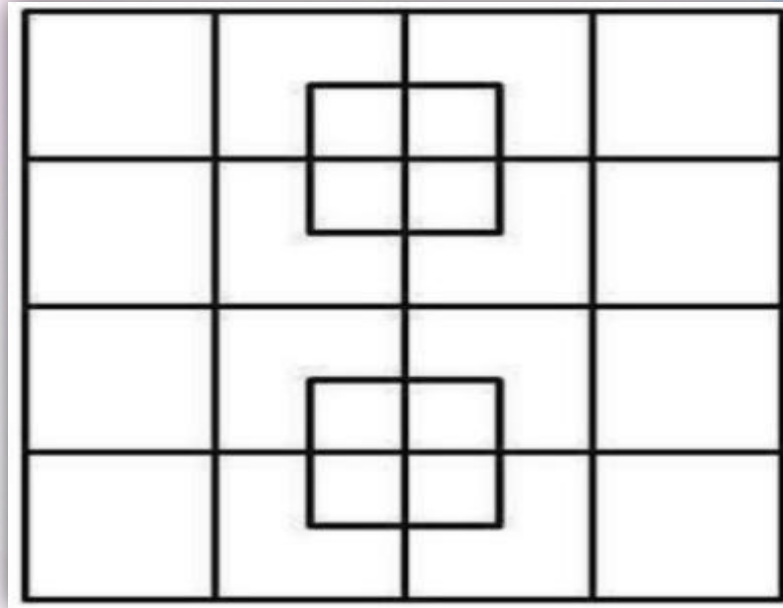
Edge computing goes hand-in-hand with several other prominent technologies, especially hybrid cloud and 5G. It's also ideally suited for Internet of Things (IoT) devices and applications. Actually, edge and IoT are more than just good partners, so to speak: They are likely to increasingly depend on each other.



Gargi Verma
ECE-3rd Year

BRAIN TEASERS

1. How many squares are there ?



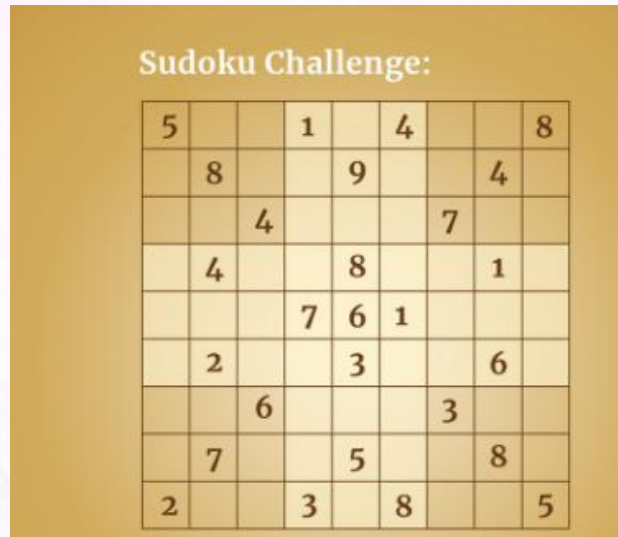
2. Can you tell?

WHAT COMES
ONCE IN A YEAR,
TWICE IN A MONTH,
4 TIMES IN A WEEK,
6 TIMES IN A DAY.

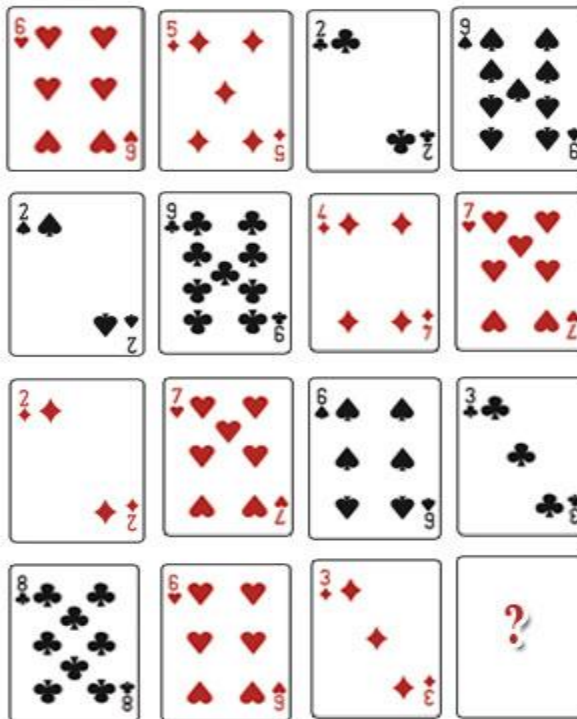
3. If the following series is reversed, what would be the fifth element to the left of the fifteenth element?

5 Q + T s 10 C # B 4 ? 8 d > A % 7 e & R @ 2

4. Do you accept the Sudoku challenge?



5. Guess the card?



ALUMNI SPEAK

I had read somewhere that an individual's intellectual and social stimulation begins from THE COLLEGE. Today when I think of this statement, after passing out from RKGIT College, I think its cent percent true. It's extremely important that those delicate and golden years of your life, you spend in an apt environment amongst the guidance of the right Guru's.

I had been extremely fortunate to spend those 4 years in RKGIT amongst the best guru's including my seniors and batchmates. From walking -in as a fresher with no direction and walking out at the end of the 4th year with 6 placements (Cognizant, Wipro, HCL, Coforge, Accenture and Adecco) in hand is probably a best transformation a person can get.

It's not only about studies or grades, it's about an all-round development and that's what my professors, seniors preached and followed. When I look back at those years what a wide spectrum, I got 6 titles in open mic representing RKGIT in DTU, DU etc , bagged runner-up trophy in AKTU zonal debate competition, part of college cricket team, won multiple titles in paper presentation, actively hosted multiple events and with all this a 81+ % in the academics and the icing on the top.. multiple job offers.

I think this is the best guidance a fresher can get, my professors with seniors and my friends helped me develop my competency, taught me how to be autonomous, helped me manage my emotions and last but not the least, helped me define my identity and this is what I call a 360 degree development.

Am blessed to be guided by the most committed, patient, knowledgeable and caring faculties from the college.



Rahul Kumar Tiwari
Batch-2020
Wipro Technologies