



**Raj Kumar Goel Institute Of Technology**

(ISO: 9001: 2015 Certified)

5th K.M. STONE, DELHI-MEERUT ROAD, GHAZIABAD (U.P.)-201003

# UDGHOOSH

THE VOICE OF  
ECE DEPARTMENT

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OF ECE DEPARTMENT

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# UDGHOSE

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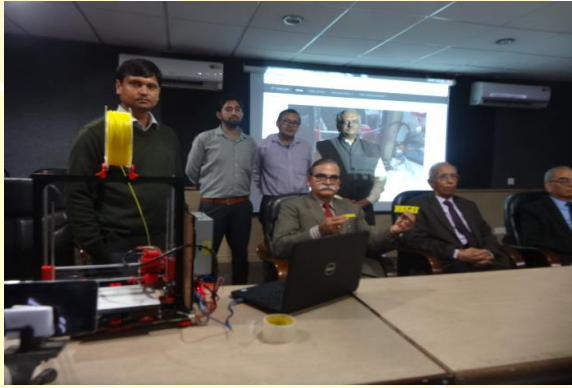
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## 3D Printer Development Center



3D Printer Development Center is being setup at Electronics and Communication Department to develop the technical knowledge of students. This lab will help in developing proto type models of any object. This lab is very useful for Mechanical, Electrical and Electronics Engineering students.

Basically 3D printing is the process of converting any digital file into a real 3D object. One can draw any object which they would like to get in to real object using CAD design software or scanning. Printer object is formed by successive layer of print materials. Widely used technologies for creating the final object are Fused Deposition Modeling ( FDM ) and Selective Layer Sintering ( SLS ). Recent advances shows the uses of liquid material Stereo Lithography (SLA ) technology.

The main process of a 3d printer is to print the object once the file is converted into stl and loaded, the sliced file will start to get a print via the nozzle. Printer follows the instruction we give in G code like layer thickness, print resolution, temperature, print speed, The more the time a printer takes to print the highest resolution print we might get. Calibration of a printer is a main factor to get good print. Once the temperature reaches its level the plastic get melt and flows through the nozzle and that's how an object is being created in 3D printer.

Widely used in Science Engineering Medical Field, Aerospace, Automobile Architecture, Education, Entertainment.

3D Printer! It's just an awesome machine that has the power capability, ability to dominate all the fields starting from the basic need of human being's Food, Home, Clothes, Organs and many. This gives an opportunity for Entrepreneurship.





# VIGYANAM-2018



"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

## E-YANTRA (Embedded System & Robotics Lab)



Inauguration of E-YANTRA (Embedded System & Robotics Lab) in RKGIT on 30<sup>th</sup> November 2017 was organized. In accordance to the National Mission for Education (ICT) under the Ministry of Human Resources and Development the lab was organised. The event was synchronized with other inauguration events of e-Yantra labs all over India under IIT Mumbai as its coordinator. The function started with the lighting of lamp followed by ribbon cutting. Dr. Laxman Prasad (Director R&D), Prof. R.P Maheshwari (Director RKGIT), Prof. Dharendra Kumar (HOD -ECE), along with all the department faculties. After which Prof. R.P Maheshwari gave his speech and ideas to encourage today's youth. The event in RKGIT was coordinated by Mr. Abhinav Bansal.



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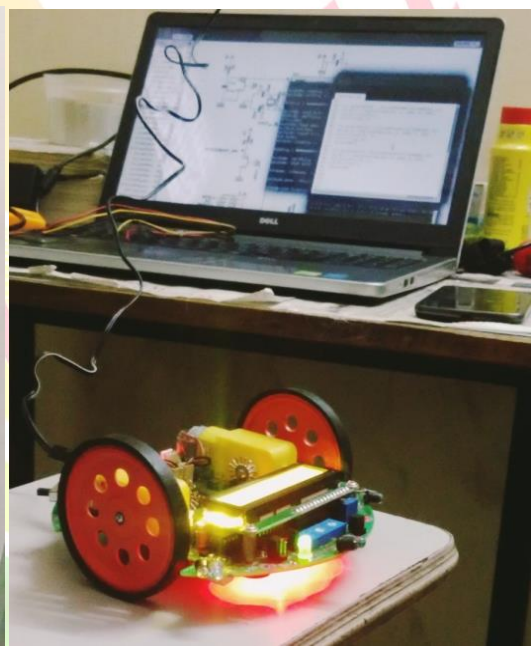


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## Fun Science Facts

1. The microwave was invented after a researcher walked by a radar tube and a chocolate bar melted in his pocket.
2. No matter its Size or thickness, no piece of paper can be folded in half more than 7 times.
3. A car traveling at 80km/h uses half its fuel to overcome wind resistance.
4. Knowledge is growing so fast that ninety per cent of what we will now in fifty years time will be discovered those fifty years.
5. According to an old English system of time units, a moment is one and a half minutes.
6. When glass breaks, the cracks move at speeds of up to 3,000 miles per hour.
7. Ten minutes of one hurricane contains enough energy to match the nuclear stockpiles of the world.
8. When hydrogen burns in the air, water is formed.
9. Cars were first made with ignition keys in 1949.







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## Faculty Achievement



Recently PhD Degree is awarded to Dr. Pavan Kumar Shukla (Coordinator, ECE Dept.) on the topic "**Analysis and Synthesis of optical OFDM system by using FDE and Comb techniques**" in September 2017 from Uttarakhand Technical University, Dehradun. Dr. Shukla has number of publication to back his thesis. He has completed this notable work under the valuable guidance of Prof. R.K.Singh(Director,BTKIT,Dwarahat,Uttarakhand).

He is also working as Chairperson of Student Activity Council of RKGIT,Ghaziabad and also a Secretary of RKGIT Alumni Association.



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## Student Technical Corner

### BARCODES

BY: SPARSH MATHUR

### INTRODUCTION:

A barcode is an optical machine-readable representation of data. Originally, barcodes represented data in the widths (lines) and the spacings of parallel lines, and may be referred to as linear or 1D (1dimensional) barcodes.

They also come in patterns of squares, dots, hexagons and other geometric patterns within images termed as the 2D (2 dimensional) matrix codes. Although 2D systems use symbols other than bars, they are generally referred to as barcodes as well. Barcodes can be read by optical scanners called barcode readers, or scanned from an image by special software. The primary barcode used in the United States is the UPC (Universal Product Code) barcode.



The UPC is also the "original" barcode. The UPC was designed for the grocery industry.

Because of the large number of items normally "checked-out" at the grocery store, a method was needed to speed up and eliminate "human" cashier errors. In 1973, the UPC barcode was born. To the average person, the barcode looks confusing and complex, but to a "bar-coded" friendly computer, it's actually very simple.







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## Bar Code Symbol Characteristics

**1. Magnification:-** The magnification (size) of the bar code symbol is determined by the X-dimension (one narrow module width) in relation to a nominal size. The allowable magnification range depends on the symbol type and the intended scanning environment. Reliability of scanning is always enhanced by selecting a magnification higher than the minimum. To print an accurate and high quality bar code symbol a number of factors, such as the printing process, ink quality, and substrate, must be taken into consideration.

**2. Bar Height:-** Once the magnification of the bar code symbol has been determined, for EAN/UPC Bar Code symbols it is important to ensure that the height remains in proportion to the magnification, and does not drop below the minimum specified.

**3. Quiet Zones (Light Margins):-** The Quiet Zones (Light Margin) of the bar code symbol are the solid, light areas before the first bar and after the last bar. These areas are extremely important as they allow the scanner to recognise the beginning and end of the bar code symbol. Any obstruction or reduction in the Quiet Zones will most likely result in scanning difficulties. The minimum size required for the Quiet Zones depends on the magnification of the bar code symbol.

It is recommended to allow slightly more than the minimum required Quiet Zones to allow for any possible ink spread or plate registration issues.

**4. Colours:-** The colours and type of ink you choose for your bar code symbols is very important. As a scanner reads a bar code symbol using an infrared light source it sees the symbol differently to the human eye.

As a result, some colour combinations and ink types are unsuitable for scanning because they do not provide sufficient contrast between the dark bars and the light background, or they provide a much too high reflectance value. The most suitable and reliable colour combination is black bars on a white background. However, as a general rule, the background of the bar code symbol can be a light, warm colour that does not contain any black (such as yellow or light orange), and the bar colour can be a dark, cool colour that has no, or low, red content (such as dark blue or dark green).







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**5. Substrate:-** The substrate (the material the bar code symbol is printed on) is very important. If unsuitable this can cause scanning difficulties. Different packaging materials reflect light differently, which can have an effect on the scanning ability of the bar code symbol. This is especially evident on transparent and translucent packages where the background is not printed. For printing bar code symbols it is recommended that you avoid the following:

- High gloss substrates
- Transparent or semi-transparent backgrounds
- Transparent wrappers over the printed bar code symbol if necessary to print onto a highly reflective (flexible) substrate, we recommend the following:
- Increase the magnification of the bar code symbol to between 105% and 120% (X-dimension 0.35mm - 0.40mm)
- Increase the amount of Bar Width Reduction
- Make the background of the symbol as dense and less reflective as possible.

To do this you may try the following:

- If you are not using wet inks, print two background layers. This may be two layers of the one colour, or you may use all light colours in the print run (e.g. white and yellow)
- Use a less viscous ink that will provide maximum coverage and density

**6. Bar Widths and Print Quality:-** Always ensure that the print quality of the bar code symbol is of a high standard. Ensure that the bars in the symbol are clearly defined, watch for voids or smudging, and avoid flecks in the background colour.

Maintaining acceptable print quality and consistent print gain (ink spread) requires regular ongoing checks.

## Anatomy of Barcodes



This number is a UPC system number that characterizes specific types of barcodes. In a UPC barcode it is normally on the left of the barcode. The actual "barcode" (the "bars" and "spaces") is the first "barcode" after the first "guard







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bar". The Number System Character is the blue box on the "Anatomy of a Barcode".

## Codes of the Number System Character:

- 0 - Standard UPC number.
- 1 - Reserved.
- 2 - Random weight items like fruits, vegetables, and meats, etc.
- 3 - Pharmaceuticals
- 4 - In-store code for retailers.
- 5 - Coupons
- 6 - Standard UPC number.
- 7 - Standard UPC number.
- 8 - Reserved.
- 9 - Reserved

WORLDHOST



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## OLED: A New Display Technology

OLEDs are a great breakthrough in display technology. Also a new promising technology with high expected profitability on the display market. They show low driving voltages in combination with unrestricted viewing angles, high color-brilliance, light weight, small film-thicknesses and low production costs. Organic light-emitting devices (OLEDs) operate on the principle of converting electrical energy into light, a phenomenon known as electroluminescence. This paper focuses on structure of OLED, how it works, comparison with other display and applications.

### **Introduction**

An OLED (organic light-emitting diode) is a light-emitting diode (LED) in which the emissive electroluminescent layer is a film of organic compound which emit light in response to an electric current. This layer of organic semiconductor material is situated between two electrodes. Generally, at least one of these electrodes is transparent.

### **History of OLEDs**

- First developed in the early 1950s in France
- Early technology would emitted a short burst of light when a voltage was applied. This early form applied high-voltage alternating current field to crystalline thin films of acridine orange and quinacrine.

There are two main families of OLEDs based on small molecules and those employing polymers.

Adding mobile ions to an OLED creates a light-emitting electrochemical cell or LEC, which has a slightly different mode of operation. OLED displays can use either passive-matrix (PMOLED) or active-matrix addressing schemes. Active-matrix OLEDs (AMOLED) require a thin-film transistor backplane to switch each individual pixel on or off, but allow for higher resolution and larger display sizes.

An OLED display works without a backlight. Thus, it can display deep black levels and can be thinner and lighter than a liquid crystal display (LCD). In low ambient light conditions such as a dark room an OLED screen can achieve a higher contrast ratio than an LCD, whether the LCD uses cold cathode fluorescent lamps or LED backlight. Due to its low thermal conductivity, an OLED typically emits less light per area than an inorganic LED.

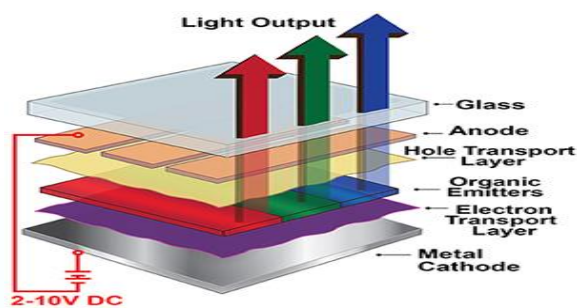




- 1960s - AC-driven electroluminescent cells using doped anthracene was developed
- In 1987 Chin Tang and Van Slyke introduced the first light emitting diodes from thin organic layers.
- In 1990 electroluminescence in polymers was discovered.
- In a 1977 paper, Shirakawa et al. Reported high conductivity in similarly oxidized and iodine-doped polyacetylene



## How does an OLED emit light?



OLED's basic structure consists of organic materials positioned between cathode and anode, which is composed of electric conductive transparent indium tin oxide (ITO). The organic materials compose a multilayered thin film, which





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includes the Hole Transporting Layer(HTL), Emission Layer(EL) and Electron Transporting Layer(ETL). By applying the appropriate electric voltage, holes and electrons are injected into the EML from the anode and the cathode resp. The

holes and electrons combine inside the EML, after which electroluminescence occurs. The transfer material, emission layer material and choice of electrode are the key factors that determine the quality of OLED components.

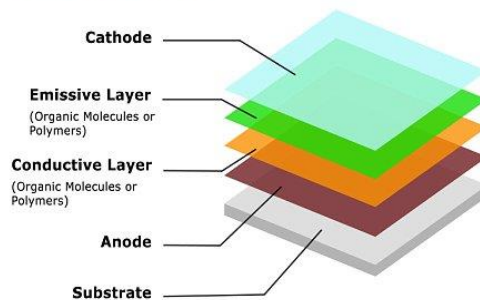
## Architecture of OLED

Like an LED, an OLED is a solid-state semiconductor device that is 100 to 500nanometers thick or about 200 times smaller than a human hair. OLEDs can have either two layers or three layers of organic material; in the latter design, the • third layer helps transport electrons from the cathode to the emissive layer.

An OLED consists of the following parts:

- Substrate (clear plastic, glass, foil) - The substrate supports the OLED.
- Anode (transparent) - The anode removes electrons (adds electron "holes") when a current flows through the device.
- Organic layer
- Conducting layer - This layer is made of organic plastic molecules that transport "holes" from the anode. One conducting polymer used in OLEDs is polyaniline.
- Emissive layer - This layer is made of organic plastic molecules (different ones from the conducting layer) that transport electrons from the cathode; this is where light is made. One polymer used in the emissive layer is polyfluorene.
- Cathode (may or may not be transparent depending on the type of OLED) - The cathode injects electrons when a current flows through the device.

### OLED structure



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## How OLED is better than LCD?



Liquid Crystal Displays or LCD is a fairly old technology that has seen a recent burst in advancement. From calculator screens, LCDs are now fairly common in mobile phones, PDAs, computers, and a lot more applications. OLEDs (Organic Light Emitting Diode) are an improved version of LEDs that utilizes organic compounds to produce light. OLEDs have been eyed by many manufacturers as a good replacement for LCDs in many applications due to multiple advantages. From the phrase 'light emitting' we can deduce that OLEDs produce their own light unlike LCDs

which require a backlight that means fewer parts. Another advantage is the lower power consumption; a great amount of the power consumed by LCDs goes to the backlight, thus the big power difference. The lack of a backlight also means that an OLED display can be significantly slimmer than an LCD display. OLEDs have also been observed to show warmer images with better contrast making their image quality far superior than what LCDs currently achieve. Manufacturing OLEDs could also be a lot cheaper than manufacturing LCDs. LCD screens are made out of transistors that are expensive to manufacture. OLEDs on the other hand can be applied to a substrate that has been treated to accept organic compounds via printing methods just like ink. Any inkjet printer can do this, making it easier and more economical to mass produce OLED displays.



By:- Aakanksha Bhargava





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## STUDENT ACHIEVEMENT

### PDP EVENT

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On 17<sup>th</sup> November, 2017 the personality development program (PDP) named ENGI RKGIT CHALLENGE was held, whose main motive was to present or showcase the talent and all-round personality development of students behind which one of the main reasons were PDP classes.

The event included two programs which were namely Presentation and Multi-Tasking Challenge. The Presentation was given on recent and hot topics such as Hyper-loops, Entrepreneurship, Demonetization, Retail v/s online marketing, Delhi Smog and India-A New China, a distant dream. The Multi-Tasking Challenge was a debate with a little twist included which made it very interesting. The challenge consisted of three rounds. In 1<sup>st</sup> round, the participant has to speak for 30 seconds for the motion and 30 seconds against the motion, alternatively and in total for 2 minutes. In 2<sup>nd</sup> round, the participant has to speak for 2 minutes (similarly) along with solving basic mathematics problem. And in 3<sup>rd</sup> round, along with these two activities the participant has to listen to music. Students from ECE, IT and CSE department have taken part in this event actively. Shephali Singh (EC, 3<sup>rd</sup> year) and Manjari Srivastava (EN, 3<sup>rd</sup> year) were the anchors of the event.

The event was attended by B.K.Gupta (Advisor Sir), Dr. Laxmi Prasad (Group Director Sir), Dr. Arvind Singh (Dean Academics Sir), HOD's and rest of the faculty members. The event was carried out successfully with words of appreciation for PDP faculties.

### OTHER ACHIEVEMENTS

In Utkarsh-2017, an intercollege fest held in NIT Kurukshetra, Aman Singh Yadav (3<sup>rd</sup> year) of UNWAAN dramatics society got the 1<sup>st</sup> position in Stage play.

In intercollege fest held in ABES Ghaziabad on 1<sup>st</sup> November, 2017, Aman Singh Yadav (3<sup>rd</sup>, year) and Unnati Kamal(2<sup>nd</sup>, year) of UNWAAN dramatics society got the 1<sup>st</sup> position in Street play.







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## WINNERS OF BEDROCK – QUIZ

IEEE organized a QUIZ event whose name is BEDROCK Quiz. This quiz was based on Mathematical Reasoning & basic Electrical Objective Questions.

Students who secured prize in this event are :

1<sup>st</sup> - **SAKET MISHRA** ( ECE - 2<sup>nd</sup> YEAR )

2<sup>nd</sup> - **ADARSH PAL** ( ECE - 2<sup>nd</sup> YEAR )

3<sup>rd</sup> - **SWAPNIL SRIVASTAVA** ( ECE – 2<sup>nd</sup> YEAR )



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## News & Events

- Dr. Dharendra Kumar (HOD, ECE) visited ALT centre on 29<sup>th</sup> December, 2017 for meeting with Dr. Somdev Bharadawaj & Mr. Subhash Chandra (CGM) regarding the training purpose for Rkgit students. Ten scientist for Central Electronics Ltd. (CEL) were also there for the meeting which was based on SOLAR & TELECOM and discussion was done on these two sectors, and how these sectors are important for UG students for their Placements in core companies of these fields.
- RKGIT College with VIGNAN BHARTI is also planning to adopt one village name "KHEMAVATI".
- Dr. Dharendra Kumar (HOD, ECE) visited to Bhuvneshwar on 9<sup>th</sup> & 10<sup>th</sup> Dec, for two days Karyakarta Abhiyan of VIGNAN BHARTI. This event was graced by A.RAJA (DIRECTOR), IIT BHUVENESHWAR.





## PMKKY

# कौशल विकास योजना कार्यक्रम का आयोजन



**गाजियाबाद।** आर.के.जी.आई.टी. में प्रधानमंत्री कौशल विकास योजना कार्यक्रम का ओरियेन्टेशन प्रोग्राम संपन्न हुआ। गाजियाबाद के आसपास के गावों के लगभग 300 बच्चे इसके तहत ट्रेनिंग पाने जा रहे हैं। जो कोर्स आर.के.जी.आई.टी. में चलने जा रहे हैं। वे सब रोजगार की दृष्टि से बहुत ही महत्वपूर्ण है। आर.के.जी.आई.टी. के लगभग सभी इंजीनियरिंग विभागों को प्रधानमंत्री कौशल विकास योजना के महत्वपूर्ण विषयों पर ट्रेनिंग कराने की अनुमति ए.आई.सी.टी.ई. से मिली है। कालेज के

एडवाइजर प्रो बी.के. गुप्ता, डायरेक्टर आर. एन्ड. डी. प्रोफेसर लक्ष्मण प्रसाद, डीन एकेडमिक डा० अरविन्द सिंह, डीन स्टूडेंट वेलफेयर मि० एच.जी.गर्ग ने बच्चों को उत्साहवर्धन करते हुए उनका उचित मार्गदर्शन किया। प्रोग्राम कोडिनेटर डा० धीरेन्द्र कुमार ने बताया कि ये सभी बच्चे कालेज की आधुनिक लैबो तथा उच्च शिक्षित फैकल्टी का पूरा लाभ उठा सकेगें जो इन बच्चों की स्किल डेवलेपमेंट के साथ परसनेलिटी डेवलेपमेंट में सहायक रहेगें।

The Institute has got the AICTE approval of eight courses on the branches of ECE, ME, CSE, CE, etc. The main courses are Solar Panel Intallation, LED, Field Technicians etc.





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## Vigilance Awareness Week

RKGIT also hosted the awareness week which was organized by BHARAT PETROLEUM in which the students of RKGIT from all branches and years participated in the debate competition on the topic of

### **"My Vision Corruption Free India"**

Some students spoke against the topic and some for the topic and they win exciting prizes from Bharat Petroleum.

This event Judged by Dr. Monika Sachdeva (Principal Pharmacy), Dr. Vibhuti (Principal MBA), Dr. Dharendra Kumar (HOD ECE).



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## ABDHISAAR

Abdhisaar 2K17 was one of the biggest and most successful talent search held in RKGIT. Auditions were done by Motion Arts Pvt. Limited. The Auditions were held on 4th & 5th of November 2017 at seminar hall 'D' block while final events of Abdhisaar were held in Sunder Deep Group of Institutions. Events included singing, dancing, standup comedy, battle of bands, theatre, creative writing and fashion show.

The top three winners of each category were awarded Trophies, Certificates Photoshoot with celebrities and gift vouchers from the sponsors. This event was organised by Student Activity Council of RKGIT.







# VIGYANAM-2018



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Our student team behind this successful event were:-

Sambhav Sharma  
CSE, 3<sup>rd</sup> Year  
(Senior Event Manager)

Krishna Mohan Yadav  
CSE, 3<sup>rd</sup> Year  
(Dance Coordinator)

Aman Singh  
EC, 3<sup>rd</sup> Year  
(Dramatics Coordinator)

Yogesh Gautam  
CSE, 3<sup>rd</sup> Year  
(Fashion Show Coordinator)

Prakhar Mohan Kaushik  
ME, 3<sup>rd</sup> Year  
(Singing & Extra Talent Coordinator)

Shivangi Sharma  
CSE, 3<sup>rd</sup> Year  
(Creative Writing Coordinator)

## **VARCHASVA'17**

RKGIT organised VARCHASVA'17 an Inter-College Sports Fest on 4-5 Nov 2017 in which more than 55 Colleges & Universities participated with over 800+ participants which was beyond our imagination to organise such a event & get a huge positive response for our college at first sight. Also the total prizes were of worth 2Lacs.

The Distinguished Guests for this Inter-College Event are as Follows –

- 1)- Dharmendra Singh Yadav (Arjun Awardee & International Boxer)
- 2)- Swatantra Raj Singh (Dronacharya Awardee, Boxer)
- 3)- Gaurav Bidhuri (Indian International Boxer, World Ranking 11th in 56kg Weight)
- 4)- Dr. Ajay Kumar Bansal (Dronacharya Awardee, Hockey Foundation Sports Authority of India, Chief Coach Hockey India)



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# VIGYANAM-2018



"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

- 5)- Dr. Yogesh Chandra Joshi (International Yoga Championship 2008, Gold Medal Utrakhand State Shooting Championship, Secretary & Fonder Member of Physical Education Foundation Of India)
- 6)- Ms. Christina Wiedemann (Straubing, Germany)
- 7)- Ritu Sharda (National Women Volleyball Player, National Volleyball Official Of India)



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This mega event was well organised by a well structured organising officials Dr. Pavan Shukla(SAC Chairperson), Dr. Ajeet Pal(Sports Convenor), Mr. Lalit Pandey(Sports Officer). In this event there were a huge crowd surrounding all the fields an enjoying the respective events.

This event was also covered by media & the next day newspapers were full of articles about VARCHASVA17.

## आरकेजीआईटी में वर्चस्व 2017 में दो सौ टीमों ले रही हैं हिस्सा

गाजियाबाद। आरकेजीआईटी गाजियाबाद में इंटर कॉलेज स्पोर्ट्स खेल महोत्सव वर्चस्व 2017 का शानदार उद्घाटन किया गया। इस आयोजन में दिल्ली, गाजियाबाद नोएडा एवं ग्रेटर नोएडा की लगभग दो सौ टीमों ने हिस्सा लिया। कार्यक्रम का उद्घाटन अर्जुन अर्वाडी एवं द्रोणाचार्य अर्वाडी धर्मेन्द्र सिंह यादव और स्वतंत्रराज सिंह द्वारा किया गया। अपने कॉलेज प्रांगण में खेल जगत की इनकी बड़ी हरितियों को पाकर बच्चों की खुशी देखनी ही गयी। वर्चस्व 2017 के उद्घाटन समारोह में आरकेजी ग्रुप आफ इंस्टीट्यूट्स के चेयरमैन दिनेश गोवल ने अपनी शुभकामनाओं का संदेश भेजा। कॉलेज के एडवाइजर वी के गुप्ता, डा.विक्रम आरएंडडी डॉ. लक्ष्मण प्रसाद, डॉन एकेडमिक प्रो. अरविन्द सिंह, डॉन स्टूडेंट वेलफेयर एच जी गर्ग, डॉन दूसरी पत्नी प्रो. पुनीत चंद्र श्रीवास्तव एवं आरकेजीआईटी महिला आयोग की चेयरमैन डॉ.पूनम सी कुमार आदि ने भाग लिया। स्टूडेंट एक्टिविटी काउंसिल के चेयरमैन डॉ.पवन शुक्ला ने छात्रों को सम्बोधित करते हुए वर्चस्व 2017 की सभी प्रतियोगिताओं की जानकारी दी एवं इस आयोजन के प्रतिनिधिमंडल से सभी का परिचय कराया। कार्यक्रम के संचालक डॉ. अजीत पाल सिंह एवं सह संचालक श्री धर्मवीर सिंह व अलोक त्यागी ने अपनी तैयारियों के बारे में बताया। कार्यक्रम में डॉ. आशीष सिंह, डा.विभूति, डॉ.मनोज मंगल एवं अमित चौधरी आदि लोगों की महत्वपूर्ण भूमिका रही। विभिन्न प्रतियोगिताओं को आयोजित करवाने में संस्था के छात्र अरविनी कुमार राय, मृदुल उपाध्याय, आस्था वर्मा एवं आरती के प्रवास सराहनीय रहे।



## आरकेजीआईटी में दो दिवसीय वर्चस्व 2017 का आगाज



गाजियाबाद। आरकेजीआईटी में दो दिवसीय स्पोर्ट्स फेस्टिवल 'वर्चस्व 2017' का किया जा रहा है। प्रतियोगिता में बालीबॉल, फुटबाल, बास्केट बॉल, बैटमिंटन, कैरम, चेस एवं टेबल टेनिस खेल खेले जाएंगे, जिसमें लगभग 35 विभिन्न संस्थानों के 800 छात्र व छात्राएं भाग लेंगे। प्रतियोगिता के दौरान मुख्य अतिथि प्रथम भारतीय बाक्सर व अर्जुन अर्वाडी से सम्मानित धर्मेन्द्र सिंह यादव तथा भारतीय बाक्सिंग टीम के जूनियर चीफ कोच (द्रोणाचार्य अर्वाडी से सम्मानित) स्वतंत्र राज सिंह रहेंगे। इस प्रतियोगिता को एसएसी चेयरपर्सन डा. पवन शुक्ला तथा स्पोर्ट्स कनवீनियर डा. अजीतपाल सिंह को कनवनीयर आलोक त्यागी तथा धर्मवीर सिंह के तत्वावधान में कराया जा रहा है।

## RKGIT में खेल महोत्सव शुरू

■ एनवीटी न्यूज, मेरठ रोड : आरकेजीआईटी में इंटर कॉलेज खेल महोत्सव शनिवार से शुरू हो गया। खेल महोत्सव के पहले दिन कई प्रतियोगिताओं का आयोजन हुआ, जिनमें दिल्ली, गाजियाबाद, नोएडा, ग्रेटर नोएडा आदि के विभिन्न कॉलेजों के खिलाड़ियों ने भाग लिया। खेल महोत्सव का उद्घाटन मुख्य अतिथि धर्मेन्द्र सिंह यादव व विशिष्ट अतिथि स्वतंत्र राज सिंह ने किया। उन्होंने खिलाड़ियों को खेल भावना के साथ खेलने की शपथ भी दिलाई। रविवार को सभी खेलों के सेमीफाइनल व फाइनल खेले जाएंगे। इस मौके पर बी.के. गुप्ता, डॉ. लक्ष्मण प्रसाद, प्रो. अरविन्द सिंह, एच.जी. गर्ग, पुनीत चंद्र श्रीवास्तव, डॉ. पूनम सी. कुमार आदि मौजूद रहे।

## आरकेजीआईटी में दो दिवसीय वर्चस्व 2017 का आगाज



गाजियाबाद। आरकेजीआईटी में दो दिवसीय स्पोर्ट्स फेस्टिवल 'वर्चस्व 2017' का किया जा रहा है। प्रतियोगिता में बालीबॉल, फुटबाल, बास्केट बॉल, बैटमिंटन, कैरम, चेस एवं टेबल टेनिस खेल खेले जाएंगे, जिसमें लगभग 35 विभिन्न संस्थानों के 800 छात्र व छात्राएं भाग लेंगे। प्रतियोगिता के दौरान मुख्य अतिथि प्रथम भारतीय बाक्सर व अर्जुन अर्वाडी से सम्मानित धर्मेन्द्र सिंह यादव तथा भारतीय बाक्सिंग टीम के जूनियर चीफ कोच (द्रोणाचार्य अर्वाडी से सम्मानित) स्वतंत्र राज सिंह रहेंगे। इस प्रतियोगिता को एसएसी चेयरपर्सन डा. पवन शुक्ला तथा स्पोर्ट्स कनवनीयर डा. अजीतपाल सिंह को कनवनीयर आलोक त्यागी तथा धर्मवीर सिंह के तत्वावधान में कराया जा रहा है।







# VIGYANAM-2018



विज्ञानम् - 2018

"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

## आरकेजीआईटी में वर्चस्व 2017 का मल्य आयोजन



गाजियाबाद। आरकेजीआईटी में इंटर कॉलेज स्पोर्ट्स खेल महोत्सव वर्चस्व 2017 का शानदार उद्घाटन किया गया। आयोजन में दिल्ली, गाजियाबाद, नोएडा की लगभग 200 टीमों ने हिस्सा लिया। कार्यक्रम का उद्घाटन अर्जुन अवाडी एवं द्रोणाचार्य अवाडी धर्मेन्द्र सिंह यादव और स्वतंत्र राज सिंह ने संयुक्त रूप से किया। कॉलेज प्रांगण में खेल जगत की इतनी बड़ी हस्तियों को पाकर बच्चों की खुशी दोगुनी हो गयी। वर्चस्व 2017 के उद्घाटन समारोह में आरकेजी गुप आफ स्टूडेंट्स के

चेयरमैन दिनेश गोयल ने अपनी शुभकामनाओं का संदेश भेजा। कॉलेज के एडवाइजर बी.के.गुप्ता, डायरेक्टर आर एंड डी डॉ. लक्ष्मण प्रसाद, डीन अकैडमिक प्रो. अरविन्द सिंह, डीन स्टूडेंट वेलफेयर एच जी गर्ग, डीन दूसरी पाली प्रो. पुनीत चंद्र श्रीवास्तव एवं आरकेजीआईटी महिला आयोग की चेयरमैन डॉ.पुनम सी कुमार आदि ने समारोह की भव्यता बढ़ाई।

स्टूडेंट एक्टिविटी काउंसिल के चेयरमैन डॉ.पवन शुक्ला ने छात्रों को सम्बोधित करते हुए वर्चस्व 2017 की सभी प्रतियोगिताओं की जानकारी दी एवं आयोजन के प्रतिनिधि मंडल से सभी का परिचय कराया। कार्यक्रम के संचालक डॉ अजीत पल सिंह एवं सह संचालक धर्मबीर सिंह एवं अलोक त्यागी ने अपनी तैयारियों के बारे में बताया। इस मौके पर डॉ आशीष सिंह, डॉ विभूति, डॉ मनोज मंगल, एवं अमित चौधरी आदि लोग उपस्थित रहें।

## वर्चस्व 2017 का आगाज

गाजियाबाद (पंजाब केसरी): मेरठ रोड़ स्थित आरकेजीआईटी संस्थान में इंटर कॉलेज स्पोर्ट्स खेल महोत्सव वर्चस्व 2017 का शानदार उद्घाटन किया गया। इस आयोजन में दिल्ली, गाजियाबाद, नोएडा की लगभग 200 टीमों ने हिस्सा लिया, कार्यक्रम का उद्घाटन अर्जुन अवाडी एवं द्रोणाचार्य अवाडी धर्मेन्द्र सिंह यादव और स्वतंत्र राज सिंह द्वारा किया गया। अपने कॉलेज प्रांगण में खेल जगत की इतनी बड़ी हस्तियों को पाकर बच्चों की खुशी दोगुनी हो गयी। वर्चस्व 2017 के उद्घाटन समारोह में संस्थान के चेयरमैन दिनेश गोयल ने अपनी शुभकामनाओं का संदेश भेजा। कॉलेज के एडवाइजर बीके गुप्ता, डायरेक्टर आर एंड डी डॉ लक्ष्मण प्रसाद, डीन अकैडमिक प्रो अरविन्द सिंह, डीन स्टूडेंट वेलफेयर एच जी गर्ग, डीन दूसरी पाली प्रो पुनीत चंद्र श्रीवास्तव एवं आरकेजीआईटी महिला आयोग की चेयरमैन डॉ पुनम सी कुमार आदि ने इस समारोह की भव्यता बढ़ाई। स्टूडेंट एक्टिविटी कौंसिल के चेयरमैन डॉ पवन शुक्ला ने छात्रों को सम्बोधित करते हुए वर्चस्व 2017 की सभी प्रतियोगिताओं की जानकारी दी एवं इस आयोजन के प्रतिनिधि मंडल से सभी का परिचय कराया। संचालक डॉ अजीत पल सिंह एवं सह संचालक धर्मबीर सिंह एवं अलोक त्यागी ने अपनी तैयारियों के बारे में बताया। इस मौके पर डॉ आशीष सिंह, डॉ विभूति, डॉ मनोज मंगल, एवं अमित चौधरी आदि लोग उपस्थित रहें।



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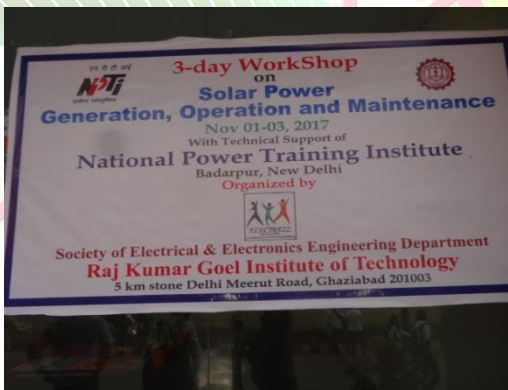
## New Year Celebration



Department of Electronics and Communication organized a NEW YEAR celebration on 1<sup>st</sup> January 2018. Melodious songs were sung by the faculty members after which the sweets were distributed among them.

## Solar Power Day

As RKGIT always cares about everything so we have already install the Solar Cell panels at huge arena for eco-friendly and efficient way of electricity production.







# VIGYANAM-2018



"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

## Guest lecture

A Guest Lecture Series was organised on 11th November 2017 on " Wireless Sensor Networks" by Dr. Suneet Gupta (Bennett University) and "Application of Power Electronics to Transmission Project" by Prof. S.C Kapoor.(JIMS, Rohini) for the ECE,CSE,IT and EEE Department.



Prof S.C. Kapoor was faculty at IIT Kanpur & IIT Delhi. He retired from G.M. BHEL.His lecture was highly informative & Interactive.

The faculty members from EEE and ECE Dept. were the main participants.

The lecture on WSN was also highly interactive. In this lecture the participants were from CSE Dept. also with the faculty members of ECE Department.



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# VIGYANAM-2018



"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

## Jaipuria Quiz

Jaipuria Institute of Management organised Jaipuria Quiz League (JQL-2017) for B.Tech. and B.Pharm. (2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year) students. This league was conducted in three levels as below:

S. No.	Level	Venue
1	Level-1 (Preliminary Round)	RKGIT, D-Block First Floor
2	Level-2 (Regional Level)	Jaipuria Institute, Noida
3	Level-3 (Grand Finale)	Delhi



This event was organised by Student Activity Council of RKGIT.

## आरकेजीआईटी में लिटरेरी कॉउन्सिल एवं सीएसएसएस सोसाइटी के इवेंट



**गण्डियाबाद।** राज कुमार गोयल इंस्टिट्यूट ऑफ टेक्नोलॉजी के स्टूडेंट एक्टिविटी कॉउन्सिल की लिटरेरी कॉउन्सिल के अंतर्गत एक क्विज का आयोजन किया गया जिसमें 400 से अधिक छात्रों ने भाग लिया। क्विज का आयोजन जयपुरिया

लीग 2017 की तरफ से संतसाज पटेल, अलका सिंह तथा प्रीती शर्मा उपस्थित रहे जिन्होंने बताया की यह एक राष्ट्रीय स्तर की क्विज है, जो तीन चरणों में होगी। द्वितीय चरण के विजेताओं को 25000 का पुरस्कार तथा अंतिम चरण के विजेताओं को 1 लाख रूपए का पुरस्कार दिया जायेगा। कॉलेज में क्विज का संचालन लिटरेरी कॉउन्सिल के कन्वीनर उपेश भटनागर ने किया तथा क्विज में स्टूडेंट एक्टिविटी कॉउन्सिल के चेयरमैन पवन शुक्ला, डीन स्टूडेंट वेलफेयर एचजी गर्ग, लिटरेरी कॉउन्सिल के को-कन्वीनर पवन पांडेय, अनुपम शर्माके साथ अन्य शिक्षक भी उपस्थित रहे।

### विज्ञान प्रोग्राम में दिव्या व आलोक भारती का गुण विजयी



दिव्या लीग 2017 में विज्ञान प्रोग्राम के अंतर्गत विज्ञान प्रश्न विभाग के विजेता दिव्या भारती और आलोक भारती को 25000 का पुरस्कार तथा अंतिम चरण के विजेताओं को 1 लाख रूपए का पुरस्कार दिया जायेगा। कॉलेज में क्विज का संचालन लिटरेरी कॉउन्सिल के कन्वीनर उपेश भटनागर ने किया तथा क्विज में स्टूडेंट एक्टिविटी कॉउन्सिल के चेयरमैन पवन शुक्ला, डीन स्टूडेंट वेलफेयर एचजी गर्ग, लिटरेरी कॉउन्सिल के को-कन्वीनर पवन पांडेय, अनुपम शर्माके साथ अन्य शिक्षक भी उपस्थित रहे।

### ग्रउस का उद्घाटन



ग्रउस का उद्घाटन कार्यक्रम में विजेताओं को 25000 का पुरस्कार तथा अंतिम चरण के विजेताओं को 1 लाख रूपए का पुरस्कार दिया जायेगा। कॉलेज में क्विज का संचालन लिटरेरी कॉउन्सिल के कन्वीनर उपेश भटनागर ने किया तथा क्विज में स्टूडेंट एक्टिविटी कॉउन्सिल के चेयरमैन पवन शुक्ला, डीन स्टूडेंट वेलफेयर एचजी गर्ग, लिटरेरी कॉउन्सिल के को-कन्वीनर पवन पांडेय, अनुपम शर्माके साथ अन्य शिक्षक भी उपस्थित रहे।







# VIGYANAM-2018



"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

## List of selected students from ECE Branch till date - 2018 Batch

S. No.	ROLL NO.	Name Of The Students	Branch	Name of company	Package Offered (Per annum)	Mobile No.	Shift
1	1403331043	ASTHA VERMA	ECE	AuthBridge Research Services	2 LPA	7835987124	First
2	1403331047	BANDANA YADAV	ECE	Amazon India	2.28 LPA	8505861605	First
3	1403331039	ASHUTOSH TRIPATHI	ECE	Amazon India	2.28 LPA	8745886997	First
4	1403331094	NEELESH SINGH	ECE	Amazon India	2.28 LPA	9911898213	First
5	1403331097	NIKHIL SONI	ECE	Amazon India	2.28 LPA	9540701774	First
6	1403331150	SNEHA RAGHUNATH	ECE	Genpact	1.5 LPA-1.8 LPA	9711494472	First
7	1403331030	ANU GUPTA	ECE	Genpact	1.5 LPA-1.8 LPA	8299673387	First
8	1403331091	NAMAN SINGH	ECE	Capitalvia Global	303160/-PA	9540701595	First
9	1403331108	PRIYAM AWASTHI	ECE	Capitalvia Global	303160/-PA	9911899878	Second
10	1403331061	GAURAV SINGH	ECE	Capitalvia Global	303160/-PA	8742996613	First
11	1403331003	AAYUSHI SHARMA	ECE	Capitalvia Global	303160/-PA	7550717473	First
12	1403331101	PRACHI MISHRA	ECE	Capitalvia Global	303160/-PA	7503452481	First
13	1403331102	PRAGATI PANDEY	ECE	Capitalvia Global	303160/-PA	7835986601	First
14	1403331166	VIDHI BHATNAGAR	ECE	Work Advantage Pvt Ltd	3-3.5 LPA	7065172618	First



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## UPCOMING EVENTS

When you're working & busy with your life schedules then events are the best approach to get refreshed. It grabs your attention from the off an then feature into the top memories. Here are some upcoming events within the college are

- 1) AKTU Zonal Sports Fest 2018 at ABESIT 23-25 Jan.
- 2) Vigynam 22-23 Feb 2018.
- 3) RKGIT TechFest 31<sup>st</sup> March & 1<sup>st</sup> April 2018.
- 4) Alumni Meet 2018 on 14<sup>th</sup> April 2018.

## AKTU Zonal Sports Fest 2018

Every year AKTU organise the state level festivals for cultural as well as sports. For the sports fest zones are divided within the Uttar Pradesh to select the teams for the various sports. Further these teams will be played at the state level. AKTU organise Zonal Sports Fest in every zone simillarly this year ABES College in Ghaziabad host the Zonal Level Sports fest 2018 on 23-25 January 2018. After selection the selected teams will played at state level which is to be held 5-6 Feb 2018.

Further the details are available on the official website of AKTU and the ABES College also.

## RKGIT ANNUAL FEST-2018

RKGIT Annual fest, which will be a joint venture of hobby council, literary council and Cultural council of RKGIT. IT WILL BE ORGANIZED ON 31<sup>st</sup> march and 1<sup>st</sup> April 2018. This is a mega event comprising of various technical competitions like robotics, lan gaming, coding, pharmacy events, fun zone , various literary competitions like (gk quiz, debates, movie making, ad-mad show, paper presentation) and cultural event competitions like (ramp walk, singing, dancing, skit, battle of bands and others) .



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## VIGYANAM'18

VIGYANAM'18 will be a national level technical paper presentation event organized by RKGIT,Gzb.on 22nd and 23 rd Feb.2018 under the convenership of Dr. Pavan Kumar Shukla.

**VIGYANAM-2018**  
विज्ञानम् - 2018  
"A TECHNICAL PAPER PRESENTATION COMPETITION (22<sup>nd</sup>-23<sup>rd</sup> FEBRUARY, 2018)"

**ABOUT VIGYANAM-2018**  
Vigyanam is an annual Inter college technical paper presentation competition for engineering students. The papers are invited from students of different engineering colleges.

**THEMES FOR PAPER PRESENTATION**

**ECE**  
1. Electronics Devices & Circuits  
2. Modern Communication Engg.  
3. Antenna, Microwave & Optical Tech.

**ME**  
1. Composite Materials, 2. Reverse Engineering  
3. Latest Development in Automobile Engineering

**CE**  
1. Stabilization of Soil, Disaster-mitigation &Mgt.,  
2. Earthquake Resistant Design of Buildings,  
3. Hazardous Waste Mgt.

**CSE/IT**  
1. AI, Image processing, Machine Learning  
2. Virtual Reality and Multimedia,  
3. Autonomic Computing Systems

**EEE**  
1. Wide Area Monitoring of Power System,  
2. Solar Power Systems,  
3. Integration renewable Energy Resources & Grid

**OBJECTIVE OF VIGYANAM-2018**  
(i) In order to promote the culture of research & innovation among Engin-eering students.  
(ii) To improve the communication skill of students.  
(iii)To generate awareness about latest develop-ment in technology.

*An annual technical paper contest*  
**VIGYANAM**  
*Something incredible is waiting to be known.*

**REGISTRATION**  
**FOR REGISTRATION CONTACT**  
**FACULTY COORDINATORS**  
1. Dr. Pavan Shukla (+91 9811820346)  
2. Mr. Upesh Bhatnagar (+91 9711155197)  
3. Mr. Saurabh Upadhyay (+91 9999512233)  
4. Mr. Anil Kumar Singh (+91 8882275073)  
5. Mr. Dipak Kumar (+91 9643025931)

**REGISTRATION FEE**  
Rs 500/- Only  
(Rs. 500/- per team as a registration fee for the competition.)  
**EMAIL YOUR PAPER @**  
[vigyanam@rkgit.edu.in](mailto:vigyanam@rkgit.edu.in)

*Scan here for full details*

*or Visit our Webpage*  
<http://www.rkgit.edu.in/vigyanam>

*Call for Papers*

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## ALUMNI MEET 2018

RKGIT Alumni association is an association of graduates or, more broadly, of former students. These associations often organize social events, publish newsletters or magazines, and raise funds for the organization. Many provide a variety of benefits and services that help alumni maintain connections to their educational institution and fellow graduates.

RKGIT also organize alumni meet to in which all previous students of our Institute collect together and maintain a connections between their juniors to tell them about the present scenario of the education market.







# VIGYANAM-2018



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## Alumni Speak



**Gaurav Kansal**  
**(ET - 2000-2004 )**

Here I would like to take an opportunity to mention that RkGIT's experienced faculty played major role in making me aware of all professional aspects of facing the competition of the outside world. I feel immense pleasure to share my success of being at a position of Deputy Project Director of Eastern Dedicated Freight Corridor - Bahupur to Khurja, 350 Route Kms of 1500 Crores.  
Thank you RKGIT !  
Regards,  
Gaurav Kansal  
Dy Project Director.



**Anusha Srivastava, ECE**

It is my pleasure to place on record the wonderful years I had under the auspices of ECE Department at RKGIT , Ghaziabad. College life is an important phase in a student's academic journey . I would always be grateful to RKGIT for giving me a multi-dimensional learning by providing the apt mix of academics and leadership. RKGIT College made me focused and experiences gained during the course of 4 years have contributed to my personal and professional growth . RKGIT College has nurtured my aspirations and laid the foundations to realize those aspirations giving wings to my dreams. I am grateful to all professors who went out of the way to teach us. One cannot forget how they helped us even a day before sessionals. I still remember my first day at college and the dilemma I was into, but all my worries were laid to rest after the initial hiccup and day by day the foundation got stronger and I too became stronger.

It is said that home is sweet. But even then life at home, cannot be compared to the life in a hostel. The latenight and group studies , gossips , evening walks , long lines in mess and a hell lot of things add to the golden era of my life which has passed by leaving behind some wonderful friends for life.







# VIGYANAM-2018



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**SHYAM NARAYAN GUPTA**

## **Faculty and the stature of study in RKGIT-**

Faculty members of RKGIT are quite capable for inspiring the young engineers. Besides this, I would say gratitude comes for those who sacrifice their time to make your life better. All the faculties that I have been through never denied for any guidance that I needed, I venerate them. The course of study followed is well up to the mark...and also you are motivated for various technical competitive exams too.

## **Any Particular Faculty which had left a deep impact on you-**

Each one of them been distinctly special in some way or the other for their love and support in all walks of my college life. I have learnt Various Things from All the faculty Members. Dheerendra Sir, Ankit Tripathi Sir, Abhinav Bansal Sir, VKC Sir, Ramendra Sir & Anamika Ma'am (My

mentor & Project Guide) has always been few of the most inspirational teachers of my life.

## **What was the highlight of your college experience?? Is there something that will stand you out; something that you will always remember-**

These 4 years were the golden years of my life...I grew up as an individual, got amazing friends for life and learned to work under pressure and I believe these are the key factors for success in today's world. There was a great role of AECE & UDGHOSH to developing my management skills. I got the chance to work for Underprivileged students via a NGO ie. Light de literacy. Apart from studies I have enjoyed a lot like B'day parties at Nescafe etc, fest nights etc.

## **About your hostel life/any incident from your hostel life-**

Hostel life would always be the unforgettable days. These are the very special moments which you miss throughout your life. There are many moments which you cannot forget and also can't describe in words, all those late night group chats, party, eating Maggie and one night study just before the exam makes you more confident. Playing Badminton, late night birthday celebrations and most imp were "Friends Turns into Family". Only I would like to say, I miss my college days and hostel too.

## **About your friends from RKGIT-**



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Friends are the one more reason to loving this place. I got the some amazing people without life can't be complete..My Batchmates Specially my classmates, My lovely Juniors, Team AECE, Team Udghosh, Literary Council gave me the gems of my life. Due to long list of such people it's not possible to put all the names.

### **What do you like the most about RKGIT-**

Supportive Faculty members, Various extra cocurricular activities & yes the best part is Central Libarary, where I have spent most of the time in my last year of engineering. Dept of ECE has a great role to improving my skills & providing me various opportunity with a learning environment.

### **One thing which RKGIT taught you-**

RKGIT has been the place where we got to dramatically reinvent ourselves time and again until we finally landed on the winning version. Being a part of various

college events, I learned to wiggle room to budget my time to multiple things at a time.

### **How the course you studied helps you presently in your today's work place-**

Ways of implementation may vary, but the basic concepts of the course study are of great help everywhere. But I think I there should be addition of latest technology in the syllabus by which we can easily correlate the ongoing technology with our curriculum.

### **Any message for you juniors-**

College days are the best days in life so enjoy it because these are never ever goanna come back. I only suggest you, stay focused on your studies means both Practical and Theoretical Knowledge. . At the end I would like to wish all of you ALL THE BEST for your Bright future."Study Hard so you can Party Harder.



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## Test Your Skills

1. Three pipes A, B and C can fill a tank from empty to full in 30 minutes, 20 minutes, and 10 minutes respectively. When the tank is empty, all the three pipes are opened. A, B and C discharge chemical solutions P, Q and R respectively. What is the proportion of the solution R in the liquid in the tank after 3 minutes?

A.  $\frac{5}{11}$

B.  $\frac{6}{11}$

C.  $\frac{7}{11}$

D.  $\frac{8}{11}$

2. The cost price of 20 articles is the same as the selling price of  $x$  articles. If the profit is 25%, then the value of  $x$  is:

A. 15

B. 16

C. 18

D. 25

3. A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?

A. 2 : 1

B. 3 : 2







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- C. 8 : 3
- D. Cannot be determined
- E. None of these

4. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

- A. 1 : 3
- B. 3 : 2
- C. 3 : 4
- D. None of these

5. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs  $8 \text{ g/cm}^3$ , then the weight of the pipe is:

- A. 3.6 kg
- B. 3.696 kg
- C. 36 kg
- D. 36.9 kg







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6. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

A.  $\frac{1}{2}$

B.  $\frac{3}{4}$

C.  $\frac{3}{8}$

D.  $\frac{5}{16}$

7. The average monthly income of P and Q is Rs. 5050. The average monthly income of Q and R is Rs. 6250 and the average monthly income of P and R is Rs. 5200. The monthly income of P is:

A. 3500

B. 4000

C. 4050

D. 5000







# VIGYANAM-2018



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## SPECIAL THANKS

Our sincere thanks to all our previous editorial board members,

- 1) Ms. Anamika Gupta
- 2) Ms. RiJu Jindal
- 3) Ms. Richa Gupta
- 4) Mr. Kunal Lala

for their precious contribution & also thankful for their kind support & help.

WORLDHOST



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