



ETC Junction

A Newsletter

Electronics
And
Telecommunication

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A JOURNEY FOR BLUE

By Mr. Piyush Tiwari SYBTECH

Cupped water on the palm of hand has no colour but when we see the large oceans it viewed as blue to us.

Dr. C V Raman had also given his thoughts regarding this phenomena during his early research. When he was coming back to home through the Mediterranean Sea by boarding S.S Narkunda from England he wondered why is this sea blue? Till Raman proposed his idea scientists had very much believe in Lord Rayleigh's theory, a great physicist who showed the world why sky is blue by Rayleigh scattering experiment. Rayleigh had given the best accepting explanation which was "*The much admired dark blue of the deep sea has nothing to do with the colour of water, but is simply the blue of the sky seen by reflection*". Raman's brain was not complementing the idea of Rayleigh and he thought the sea colour had nothing to do with sky, it just that sea is scattering more blue colour than the other colours of light. During his voyage he began his experiment using simple optical equipment, a pocket-sized spectroscope and a Nicol prism in hand. He studied the water of Mediterranean Sea very deeply. The Nicol prism allowed Raman to see the

sea water without the influence of sunlight reflected by the surface and the result was poles apart to the Rayleigh's idea. The sea seemed to be bluer when it was observed without the influence of sunlight. Raman performed his experiment in following ways: He wanted to view the surface of the water through a Nicol prism which was mounted at the one end of tube in such a way that the prism could turned about its axis and pointed out in any direction. He saw the smooth patch of water with tube which was at the polarising angle with the surface of water and the reflection of sky-light light was quenched by the suitable orientation of nicol. Nicol was able to suppress the reflection of sky light by polarization.

Before S.S. Narkunda docked in Bombay harbour, Raman finished an article "The colour of the sea". He published it in November 1921 issue of Nature. He noted that Rayleigh's explanation is questionable with simple observation using prism. When he reached Calcutta, he asked his student K.R. Ramanathan to conduct research at IACS, Indian Association for the Cultivation of Science, and the first research institute in India. Raman Stated:

"It is proposed in this paper to urge an entirely different view, that in this

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phenomenon, as in the parallel case of the colour of the sky, molecular diffraction determines the observed luminosity and in great measure also its colour. As a necessary preliminary to the discussion, a theoretical calculation and experimental observations of the intensity of molecular scattering in water will be presented". As a prominent cohort, Ramanathan published an elaborated experimental finding in 1923 and subsequent study in Bay of Bengal in 1924 provided the full evidence.

Workshop on "Raspberry-Pi"

Workshop on Raspberry-Pi for TY students for learning some new technologies was conducted on 24, 25 August & 1 Sept.2019. Resource person was Mrs. Sarika Patil from H globe technologies, Sangli. Some BE students also attended the lecture along with TY students.



Guest lecture – Mr. Ajinkya Dixit

Inauguration of ASSETS was celebrated on 5 Sept.2019. On this day; we had planned guest lecture on "Robotics". Resource person was Mr. Ajinkya Dixit from Aerobotix Techsolutions, Kolhapur.



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FDP on Robotics, IoT & Embedded System

For students and faculty members, department had organized FDP on Robotics, IoT & Embedded system from 29-30 Sept & 1 Oct.2019. Resource person was from Texas Instruments. Also we inaugurated our new lab "Texas Innovation Center".

Guest lecture – Mr. Ajinkya Dixit

For S.Y. students a guest lecture of Mr. Ajinkya Dixit was arranged on 28 Jan.2020. The objective of this workshop was to get new ideas for their mini-project.



Parents Teacher MEET

In the ETC department, parents' meet was held with the main motive of conveying the parents the progress of their respective wards. The meet began with introduction to all the faculty members as well the department. The parents were told the importance of industrial training, visits, and internships and were asked to motivate their children and thoroughly get them prepared for the campus. The main stress was on KPIT technologies as the institute has MOU with the organization and also it hires a good number. In addition to this, the first three toppers of each class as well as the five core members of ASSETS were felicitated by their parents. The meet indeed was a great opportunity where parents, faculty members and students came together and had a good interaction. It was organized on 15 Sept.2019.



Workshop on Antenna S/W HFSS

For T.Y students, one day workshop was arranged on 6 Oct.2019 in our department. Resource person was Mr. Sajid Mulla. The workshop consisted of two parts namely theory of Microstrip Antenna and Hands-on working on HFSS software.

Value added program on ARDUINO



Our department organized 2 days ARDUINO workshop for S.Y. students on 2-3 Feb.2020. The objective of this workshop was to implement this ARDUINO in Project Based Learning (PBL).

Guest Lecture on Career Opportunities

Guest lecture on career opportunities for T.Y and B.E. students was arranged on 4 Feb.2020. Resource person was Mr. Mahesh Takale from Chankya Solutions, Kolhapur. Students got a

valuable information from resource person for their career. The program was conducted under IETE.



Guest Lecture on Placement Awareness

For E&TC students, we had arranged placement awareness program by our esteemed alumni Mr. Rajat Harlikar on 6 Feb.2020.



PIONEER 2020:

In PIONEER 2020, department conducted activity 'Hired or Fired' on 16 Feb.2020 under ASSET. The event 'Hired or Fired' had organized by ASSETS of E&TC department under 'pioneer' a national level technical event of KIT's college of engineering. The theme of the event was 'Mock placement rounds with provoking challenges'. Students from various colleges of Maharashtra participated. The event started by the guidance of Dr.Sangeeta Chougule mam, HOD of ENTC department, Mrs. Ashwini Shinde, faculty coordinator of ASSETS, Shrinivaas Bartake president of ASSETS, and Vice President Sushant Kamble. First round of event was Aptitude test. Based on the results of Aptitude test the students were selected for the second round

which was the surprise round.

The surprise round was all about creativity, understanding ability and grasping power. The students were supposed to watch one video which was an advertisement video of Apple Company and they were supposed to convert all the things they gained or understood from that video on the paper. Based on ideas, presentation and creativity the students were selected for the further and last round which was the interview round.

The selected students were interviewed by the special guest Mr. Shrikant Sawant, Sales Development Manager Pediatric Nutrition Division. The final winners of the event were felicitated by the guest with the prize and certificate. The program was successfully completed with this prize distribution and valuable guidance of the guest. The event was successfully concluded with vote of thanks.



Department Achievements:

Our student Ms.Divya Gharal secured 4th rank in Shivaji University.



Placements in 2019-20:**MOUs**

- **KPIT Technologies**
- **SKADA Technology Solutions Pvt. Ltd.**
- **Shimpukade Metals Pvt. Ltd.**

Department of Electronics & Telecommunication		
Placement Data 2019-20		
Sr. No.	Name of Student	Company
1	Lohar Shivani J.	KPIT
2	Mane Akshay D.	KPIT
3	Desai Priyanka Suresh	KPIT
4	Devarkar Aniket Suresh	KPIT
5	Nawathe Abhiram V..	KPIT
6	Sohani Himani Vidyadhar	KPIT
7	Shelke Omkar Sanjiv	KPIT
8	Patil Prachi Ratan	KPIT
9	Nale Mayuri Vilas	KPIT
10	Shinde Shivani Tatyaso	KPIT
11	More Prarthana Pralhad	TCS
12	Awate Shriya Sunil	TCS
13	Patil Smruti Dilip	Hexaware
14	Chaudhari Priyanka Hemaraj	Hexaware
15	Paste Vaibhavi Santosh	Hexaware
16	Kulkarni Sharvari Dhanajay	Hexaware
17	Nair Ravina Shikumar	Infosys
18	More Snehal Netaji	WIPRO
19	Sohani Himani Vidyadhar	WIPRO
20	More Snehal Netaji	Cognizant
21	Mungale Harshada Vijay	Cognizant
22	Macharekar Apeksha Rajesh	SLK
23	Shinde Sanket Nanasaheb	SLK

PIONEER 2k20

KIT is known for Pioneer since it is one of the most esteemed festivals of the institute. This year it underwent many transformations and additions which in turn made it a grand success.

In PIONEER 2020, department conducted activity "Hired or Fired" on 16 Feb.2020 under ASSET.



Parents Teacher Meet:(Felicitation of Students):



Tree Plantation in KIT Campus: 25 September 2019:



Guest Lectures:



Mr. Mahesh Takale, Chankya solutions



Mr. Ajinkya Dixit, Aerobotix Techsolutions



Mr. Sajid Mulla, Academician

RaspberryPi Workshop:



ARDUINO Workshop:



TEXAS Lab Inauguration and FDP on Robotics, IoT & Embedded System:



ASSET Inauguration:



Department got NBA accreditation:

On 8 and 9 November 2019, NBA committee visited our Electronics & Telecommunication Department and made the assessment. After accessing different criterias. In December 2020, committee declared the result that our department got NBA accreditation for next three years.

'केआयटी'च्या इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशनला 'एनबीए'चे मानांकन

उजळाईवाडी/कोल्हापूर : प्रतिनिधी कोल्हापूर इन्स्टिट्यूट ऑफ टेक्नॉलॉजीचे अभियांत्रिकी महाविद्यालय (स्वायत्त) कोल्हापूर महाविद्यालयाच्या इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग या विद्या शाखेला राष्ट्रीय मूल्यांकन मंडळ (एनबीए), नवी दिल्ली यांच्याकडून मानांकन मिळाले आहे. हे मानांकन ३० जून २०२२ पर्यंत वैध असणार आहे.

याबाबतचे पत्र नुकतेच केआयटीला प्राप्त झाल्याची माहिती, केआयटीचे संचालक डॉ. व्ही. व्ही.कार्जिनी व अध्यक्ष भरत पाटील यांनी दिली.

केआयटीला राष्ट्रीय मूल्यांकन मंडळाच्या नॅशनल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, कुरुक्षेत्र, हरियाणाचे माजी संचालक डॉ. कृष्ण गोपाल यांच्या अध्यक्षतेखालील तीन सदस्यीय समितीने भेट देऊन या विद्या शाखांचे

राष्ट्रीय मूल्यांकनासाठी परीक्षण केले होते. महाविद्यालयाला २००५ व २००८ मध्ये दोनवेळा 'एनबीए'चे राष्ट्रीय मूल्यांकन प्राप्त झाले आहे. यावर्षी तिसऱ्यांदा 'एनबीए' यांच्याकडून इलेक्ट्रॉनिक्स इंजिनिअरिंग, प्रॉडक्शन इंजिनिअरिंग, सिव्हिल इंजिनिअरिंग, कॉम्प्युटर सायन्स अँड इंजिनिअरिंग या विभागांना फेब्रुवारी २०१८ मध्ये मानांकन मिळाले आहे.

त्यानंतर उर्वरित एन्व्हॉर्मेटल इंजिनिअरिंग व मेकॅनिकल इंजिनिअरिंग या दोन विद्या शाखांना नुकतेच मूल्यांकन प्राप्त झाल्यामुळे केआयटीचे जवळजवळ सर्वच कोर्सेस एनबीए मूल्यांकित झाले आहे. हे मूल्यांकन २०१५ च्या नियमावलीनुसार 'आऊट कम बेस्ट एज्युकेशन'च्या अनुषंगाने प्रमाणित करण्यात आले आहे.



'केआयटी'च्या इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशनला 'एनबीए'चे मानांकन

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केआयटीला राष्ट्रीय मूल्यांकन मंडळाच्या नॅशनल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, कुरुक्षेत्र, हरियाणाचे माजी संचालक डॉ. कृष्ण गोपाल यांच्या अध्यक्षतेखालील तीन सदस्यीय समितीने भेट देऊन या विद्या शाखांचे

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त्यानंतर उर्वरित एन्व्हॉर्मेटल इंजिनिअरिंग व मेकॅनिकल इंजिनिअरिंग या दोन विद्या शाखांना नुकतेच मूल्यांकन प्राप्त झाल्यामुळे केआयटीचे जवळजवळ सर्वच कोर्सेस एनबीए मूल्यांकित झाले आहे. हे मूल्यांकन २०१५ च्या नियमावलीनुसार 'आऊट कम बेस्ट एज्युकेशन'च्या अनुषंगाने प्रमाणित करण्यात आले आहे.

According to the university... the course will start... January 3... statement from the... that the course will... for history students... researchers working on... from the pro-Ma... Participants will not... for the said course... course will give partici-



The students were jointly honoured by the Association of Italian Textile Machinery Manufacturers, Italian Ministry for Economic Development, and Italian Trade Agency

topics. The students were... ly honoured by the Ass... of Italian Textile Ma... Manufacturers, Italian... Ministry for Economic... ment, and Italian Trad... cy.

Maths scholar compet... at D Y Patil College

City-based D Y Patil... of Engineering, Salok... recently organised Ma... Maths Scholar competi... occasion of Mathe... Srinivasa Ramanuja... anniversary.

According to a m... from the college, clos... students from Kolh... tried appeared for the...

As December 22 is... anniversary of legen... hematian Ramanuj... competition was hel... re students' and encou... ir interest in mathem...

MPUS... UZZ

overview of exposure... ript through lectur... tical work. Students... know more about the... d they will get a chan... the documents from... era, the statement... ts from various uni-

universities have been invited for the course. For further details, the interested candidates can contact course coordinator Nilambari Jagtap on 0231-9606119 or 9604821457.

KIT's EXTC department gets NBA accreditation

The city-based Kolhapur Institute of Technology's Department of Electronics and Telecommunication has been

accredited by the National Board of Accreditation (NBA) recently. According to a press release from the college, the NBA accreditation is valid till June 30, 2022. The panel comprising of experts has visited the college earlier in November.

Two DKTE students felicitated

Two students of the Ichalkaranji-based DKTE society's

केआयटी कॉलेजला 'एनबीए'चे मानांकन

कोल्हापूर : कोल्हापूर इन्स्टिट्यूट ऑफ टेक्नॉलॉजी या संस्थेच्या अभियांत्रिकी महाविद्यालयातील इलेक्ट्रॉनिक्स अँड टेलि-कम्युनिकेशन इंजिनीअरिंग या विद्याशाखेला नवी दिल्ली येथील राष्ट्रीय मूल्यांकन मंडळाकडून (एनबीए) मानांकन मिळाले. हे मानांकन ३० जून २०२२ पर्यंत वैध राहणार आहे. याबाबतचे पत्र नुकतेच केआयटीला प्राप्त झाल्याची माहिती केआयटीचे संचालक डॉ. व्ही. व्ही. कार्जिनी आणि अध्यक्ष भरत पाटील यांनी दिली.

एनबीएच्या नॅशनल इन्स्टिट्यूट ऑफ टेक्नॉलॉजीचे माजी संचालक डॉ. कृष्ण गोपाल यांच्या अध्यक्षतेखालील तीन सदस्यीय समितीने आठ व नऊ नोव्हेंबर २०१९ मध्ये केआयटी कॉलेजला भेट देऊन राष्ट्रीय मूल्यांकनासाठी विद्याशाखांचे परीक्षण केले होते. महाविद्यालयातील इलेक्ट्रॉनिक्स इंजिनीअरिंग, प्रॉडक्शन इंजिनीअरिंग, सिव्हिल इंजिनीअरिंग, कॉम्प्युटर सायन्स अँड इंजिनीअरिंग या विभागांना फेब्रुवारी २०१८ मध्ये मानांकन मिळाले आहे.

प्रावीण्य प्राप्त केलेल्या विद्यार्थ्यांचा सत्कार हॉस्टेल विद्यार्थ्यांमधून प्रणव लक्ष्मण सावंत, या वषा जाकार, यांच्या

केआयटी इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशनला एनबीएचे मानांकन

कोल्हापूर / प्रतिनिधी :

कोल्हापूर इन्स्टिट्यूट ऑफ टेक्नॉलॉजीचे अभियांत्रिकी महाविद्यालय (स्वायत्त) कोल्हापूर महाविद्यालयाच्या इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनीअरिंग या विद्याशाखेला राष्ट्रीय मूल्यांकन मंडळ, नवी दिल्ली यांच्याकडून मानांकन मिळाले. हे मानांकन ३० जून २०२२ पर्यंत वैध आहे. याबाबतचे पत्र नुकतेच केआयटीला प्राप्त झाल्याची माहिती केआयटीचे संचालक डॉ. व्ही. व्ही. कार्जिनी व अध्यक्ष भरत पाटील यांनी दिली.

कोल्हापूर इन्स्टिट्यूट ऑफ टेक्नॉलॉजीचे अभियांत्रिकी महाविद्यालय



कोल्हापूर : एनबीए भेटोच्या समारोपप्रसंगी अभिप्राय देताना समिती अध्यक्ष डॉ. कृष्ण गोपाल. सोबत भरत पाटील, सुनील कुलकर्णी, दीपक चौगुले, डॉ. व्ही. व्ही. कार्जिनी, डॉ. एम. एम. मुजुमदार.

(स्वायत्त) कोल्हापूरला राष्ट्रीय मूल्यांकन मंडळाच्या नॅशनल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, कुरुक्षेत्र, हरियाणाचे माजी संचालक डॉ. कृष्ण गोपाल

यांच्या अध्यक्षतेखालील तीन सदस्यीय समितीने ८ व ९ नोव्हेंबर २०१९ रोजी भेट देऊन या विद्याशाखांचे राष्ट्रीय मूल्यांकनासाठी परीक्षण केले.

कोल्हापूर इन्स्टिट्यूट ऑफ टेक्नॉलॉजीचे अभियांत्रिकी महाविद्यालयाची उद्योजक व शिक्षण तज्ज्ञांनी स्थापन केलेले गुणवत्तापूर्ण

महाविद्यालय अशी ओळख १९८३ पासून कायम आहे. या महाविद्यालयाला यापूर्वी २००५ व २००८ मध्ये दोन वेळा एनबीएचे राष्ट्रीय मूल्यांकन प्राप्त झालेले आहे. यावर्षी तिसऱ्यांदा राष्ट्रीय मूल्यांकन मंडळ, नवी दिल्ली यांच्याकडून इलेक्ट्रॉनिक्स इंजिनीअरिंग, प्रॉडक्शन इंजिनीअरिंग, सिव्हिल इंजिनीअरिंग, कॉम्प्युटर सायन्स अँड इंजिनीअरिंग या विभागांना फेब्रुवारी २०१८ मध्ये मानांकन मिळालेले आहे आणि त्यानंतर उर्वरित एन्व्हॉर्नमेंटल इंजिनीअरिंग व मेकॅनिकल इंजिनीअरिंग या दोन विद्याशाखांना नुकतेच मूल्यांकन प्राप्त झाल्यामुळे केआयटीचे

जवळजवळ सर्वच कोर्सेस एनबीए मूल्यांकित झाले आहे. हे मूल्यांकन २०१५ च्या नियमावलीनुसार 'आऊट कम वेसड एन्ज्युकेशन' च्या अनुषंगाने प्रमाणित करण्यात आले आहे.

एनबीए मानांकन प्रक्रियेमध्ये केआयटीचे चेअरमन भरत पाटील, व्ही. व्ही. कार्जिनी, रजिस्ट्रार डॉ. एम. मुजुमदार यांचे मार्गदर्शन लाभले तर प्रमुख समन्वयक डॉ. पी. पी. पवार विभाग प्रमुख डॉ. संगीता चौगुले आणि शिक्षक व शिक्षकेतर कर्मचारी यांनी आयोजनाचे काम पाहिले.

From the HOD's Desk....

Dr. Mrs. Sangeeta R. Chougule
Head of the Department
Electronics & Telecommunication Engineering
KIT's College of Engineering (Autonomous) Kolhapur

21st is the century of communication as communication engineering has been growing exponentially in recent years. At KIT, we have developed state-of-art laboratories & centers of excellence so as to train our students in Electronics and Telecommunication (ETC) through flexible, adaptive and progressive training programs along with cohesive interaction with the academicians and industries. The big theme today is to focus on creativity and innovation alongside academics. Entrepreneurial wealth creation has been explosive on account of the massive impact made by technology start-ups. To develop thought process of students this News Letter helps.

Wish you all happy learning here.

ETC Junction

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