K.E. SOCIETY'S



Rajarambapu Institute of Technology **RIT-POLYCONNECT**

Vision of the Institute

To be a recognized polytechnic institute committed to excellence in academics, knowledge creation and delivery to develop socially responsible professionals.

Mission of the Institute

- 1. To impart technical knowledge and skills along with ethical and social values.
- 2. To strengthen association with industry and alumni to make students technically and socially responsible citizens.
- 3. To promote students for higher studies in reputed institutes.
- 4. To ensure employability, encourage entrepreneurship and promote lifelong learning.



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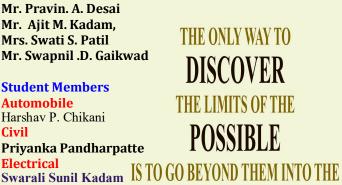
"State Level Technical Event District 10 2k20"

K.E. Society's Rajarambapu Institute of Technology, Diploma Wing conducted A State Level Technical Event on Saturday, 25/01/2020 at Time: - 10:00 am - 6:00 pm, very enthusiastically as per the culture of R.I.T. The event was successful enough to attract as many as 404 registrations for one-day event, which includes all the events.

The event executed with a total 8 sub events planned and organized at its best of quality. Focusing on the types of events to include in the event was decided by event co-Keeping the ordinators polytechnic student into consideration, with little emphasis on the Fun full events behind the scene.



interest and need of the Inauguration of District 10 2K20 by the hands of Dr.S.K.Patil (Dean Academics), Dr. H. S. Jadhav (Dean Diploma) & Dr.L.M.Jugulkar (Dean Student Development)



IMPOSSIBLE



Inauguration of Paper Presentation event by the hands of Dr.S.K.Patil

Social Activity: Road Safety Week 17th January 2020



The Road Safety Week is happening across India from 11th January 2020 to 17th January 2020. It is the 31st road safety week that is being observed.

The one-week long initiative across the subcontinent aims at making the streets safer. Many methods of spreading awareness will be implemented to ensure



मराठी भाषा दिन - २७ फेब्रुवारी २०२०

'महाराष्ट्र राजभाषा अधिनियम १९६४' नुसार महाराष्ट्राची अधिकृत राजभाषा ही मराठी असेल असे घोषित झाले. 'मराठी भाषा गौरव दिन' दरवर्षी २७ फेब्रुवारी रोजी महाराष्ट्राचे ज्येष्ठ कवी श्री विष्णू वामन शिरवाडकर उर्फ कुसुमाग्रज यांच्या जन्मदिवशी साजरा करण्यात येतो. कुसुमाग्रज यांनी महाराष्ट्रच्या सांस्कृतिक क्षेत्रामध्ये मोलाचे योगदान दिले असून मराठी भाषा ही ज्ञानभाषा होण्यासाठी अथक परिश्रम घेतले आहेत. आपल्या मातृभाषेला गौरव म्हणून व कुसुमाग्रज यांच्या स्मृतींना अभिवादन म्हणून कुसुमाग्रज यांचा जन्मदिवस'मराठी भाषा गौरव दिन' म्हणून साजरा करण्याचा शासन निर्णय दिनांक २१ जानेवारी २०१३ रोजी घेण्यात आला.



Entrepreneurship Awareness Camp



Student participation in program Entrepreneurship Awareness Camp

Entrepreneurship Development is one of the key elements for promotion of micro and small enterprises, particularly, the first generation entrepreneurs. Entrepreneurship, and resultant creation of employment and wealth, is a major mean for inclusive development. Hence, entrepreneurship development has been one of the priorities in countries, the world over. Entrepreneurship Awareness Camp was organized on $20^{\rm th}$ to $22^{\rm nd}$ February 2020 in association with MITCON Consultancy & Engineering Services Ltd., Pune .

Objective of Program is to identify and train the potential entrepreneurs in the region and to develop and strengthen entrepreneurial quality and motivation.

Faculty Development Program

Outcome Based Education & NBA Accreditation Process



Department of Mechanical and Automobile organized Outcome Based Education & NBA Accreditation Process from 4th May 2020 to 8th May 2020. This an online one week Faculty Development programme will help to participants to understand various terminologies of NBA, preparation of SAR & related documents and achieve excellence through outcome based education. Accreditation of Engineering Institutes is a symbol excellence and has becoming mandatory. The Accreditation will help Institutes to achieve higher goals through various state and national level schemes helping in improving the quality of students & faculties. Our emphasis is going to facilitate the teacher to realize this change and open up the thinking process to understand the avenues available for this purpose Objectives of FDTP:

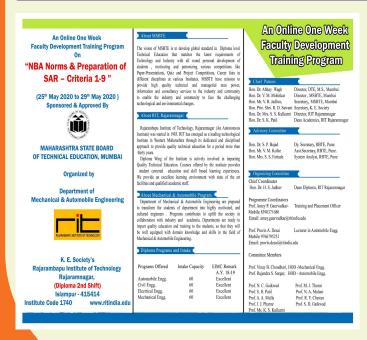
- 1. To recognize the significance of OBE and its framework.
- 2. To recognize teaching as a career.
- 3. To prepare PO's, CO's, PSO's and PEO's.

Electrical Design, Contracting and Energy Bill Calculation

Department of Electrical Engineering organised Faculty Development Training program on "Electrical Design, Contracting and Energy Bill Calculation" was scheduled on 09th to 11th May, 2020. For this program, 335 participants registered from the more than 60 institutes from Maharashtra. On the day of program Dr. H. S. Jadhav, Dean Diploma and Mr. Ansar Mulani (Resource Person) were invited as Chief Guests for the faculty development program. Program was conducted on online platform using Google Meet App. The Chief Guests Dr. H. S. Jadhav, Dean, Diploma and Mr. A. Mulani, Sr. Electrical Design Engineer, Epsit Enterprises Kupwad, inaugurated the function at 11.00 am. The other dignitaries such as Mr. A. D. Nikam, H.O.D. Diploma Electrical Department, Mr. S. M. More, Co-Coordinator for the event and Electrical Department faculties accompanied chief guests. This program was coordinated by Mr. G. R. Kavathekar and co-coordinator was Mr. S. M. More. Organizing team members were Mr. A. D. Nikam, Mr. A. V. Kulkarni, Mrs. S. Patil, Ms. P. S. Patil and Mr. K. A. Waghmare.



"NBA Norms and Preparation of SAR Criteria 1-9"



Dept. of Mechanical and Automobile Engineering have successfully completed An Online One week Faculty Development Training Program on "NBA Norms and Preparation of SAR Criteria 1-9" from 25th – 29th May, 2020. This program was approved and sponsored by Maharashtra State Board of Technical Education (MSBTE), Mumbai.

Hon. Shri. Umesh T. Nagdeve (Deputy Secretary (T), MSBTE, Mumbai) graced the inaugural function with his keynote address. Hon. Shri. V. M. Kolhe (Asst. Secretary, RBTE, -*-Pune, MSBTE) also addressed all the participants during the inauguration. The purpose behind this FDTP was to make faculties aware about NBA norms, preparation of SAR with related documentation and achieve excellence through Outcome Based Education. The participants for this FDTP were teaching faculties from all regions of Maharashtra (i.e. Pune, Mumbai, Aurangabad and Nagpur etc.) and from fields like polytechnic and pharmacy. Total 778 participants in which 44 Principals, 113 HODs and 621 faculties from 450+ institutes registered and attended the program through the online platform Zoom App.

WIRELESS CHARGING TECHNIQUE



Swarali S.Kadam **TY- Electrical**

rent electricity, was the first to conduct experiment of wireless charging. He achieved a ma-

vert microwaves back to electricity until 1964, the load on the transmitter. when W. C. Brown realized this through a nications.

Nikola Tesla, the founder of alternating cur- Three major techniques are magnetic inductive battery, that they don't have a long battery life. coupling, magnetic resonance coupling, and The main objective of Wireless Charger Sysmicrowave radiation. The magnetic inductive tem is to charge the mobile battery by using jor breakthrough in 1899 by transmitting 108 and magnetic resonance coupling work on wireless charger. The dream of wireless chargvolts of high-frequency electric power over a near field, where the generated electromagnet- ing is just to be able to plop your phone on a distance of 25 miles to light 200 bulbs and run ic field dominates the region close to the trans-shelf after work and have it fully charged an electric motor. In 1901, Tesla constructed mitter or scattering object. The near-field pow- when you pick it up again on your way out. the Wardenclyffe Tower to transfer electrical er is attenuated according to the cube of the This technology will replace cables and standenergy globally without cords through the reciprocal of the distance. Alternatively, the ardize on one interface, potentially being able Ionosphere. However, due to technology limi- microwave radiation works on far field at a to adjust power settings to charge different tation the idea has not been widely further greater distance. The far-field power decreases types of batteries. developed and commercialized. Later, during according to the reciprocal of the distance.

1920s and 1930s, magnetrons were invented to Moreover, for the far-field technique, the abconvert electricity into microwaves, which sorption of radiation does not affect the transenables wireless power transfer over long dis-mitter. By contrast, for the near-field techtance. However, there was no method to con- niques, the absorption of radiation in fluences

For Today's generation Wireless Moretina. Brown demonstrated the practicality of bile Technique is very effective and Useful. microwave power transfer by powering a Because In today's world, cell phones are one model helicopter, which inspired a series of of the basic needs in each and every person research in microwave-powered airplanes dur- life, as it is the fastest way of communication. ing 1980s and 1990s in IEEE wireless commu- Battery of a mobile phone is always considered as a major problem for the manufacturers. In Wireless Charging Techniques People always complain about their phones

BMW F 900 duo launched in India

BMW Motorrad India has launched the all- Pro will get you a quick-shifter as well.



as completely built-up units (CBU) some rather interesting optional features throughout the brand's dealership network. like IMU-based traction control, braking The BMW F 900 R roadster is a street control, switchable ABS, engine drag confighter which aims to convey freedom, and trol, keyless riding and Bluetooth connecthe BMW F 900 XR is an adventure sports tivity. Seen for the first time on motorcytourer, which aims to show off the brand's cles, the F 900 duo features plastic-welded uncompromising capability to mix sporti- fuel tanks. Also, first-in-class is the adapness with extra-ordinary touring capabili- tive cornering lights (for God's sake, thank

petitors in the mid-weight section. The na- early morning/evening cruise in the ghats ked- F 900 R goes up against the likes of (mountain passes). Both bikes will also get Ducati Monster 821 soon-to-be-launched a 6.5-inch TFT screen with BMW motorcy-Triumph Street Triple R, KTM Duke 790, cle connectivity as standard. The gauge Kawasaki Z900 and the Yamaha MT-09. cluster is the same one seen on the latest S The XR will be launched as a standard vari- 1000 RR and R 1250 GS. ant as well as a Pro version which will both The BMW F 900 R will be available in go up against the Ducati Multistrada 950, Black Storm Metallic and in Style Sport Honda Africa Twin and the Kawasaki Ver- Hockenheim Silver metallic/Racing Red sys 1000. Keep in mind that the F 900 XR paint schemes. And the BMW F 900 XR

the bored-out version of the parallel-twin paint schemes. used in the F 850 GS. Rated at 895cc, this For all those who love the experience of and 92 Nm (approx: 68 ft-lb) of torque at with a "three year, unlimited kilometres" this duo gets two opposed counterbalance breakdown and towing situations. shafts for minimising vibrations and to im- Let's talk about prices. The F 900 R will be you BMW!) which will be of great help The F 900 duo has to face some fierce com- while off-roading in darker places or just an

(standard and pro variants) will be available Both bikes, F 900 R and F 900 XR share in Light White and Style Sport Racing Red

motor can pump out 103 bhp at 8,750 rpm pure motorcycling, both bikes are available 6,500 rpm. But, 87 Nm torque will be avail- warranty as standard, with an option to exable between 4,500 rpm and 8,500 rpm, tend warranty to fourth and fifth year. Road claims BMW. However, the geometry and Side Assistance, a 24x7 365 days package, suspension of both bikes are different. Also, further ensures prompt services in case of

prove handling. Both bikes are loaded with priced at INR 9.9 Lakhs (approx: USD electronics featuring Rain and Road riding 13,110; GBP 10,710) ex-showroom. The F new BMW F 900 XR and F 900 R in India modes along with ABS and Traction Con- 900 XR Standard and Pro variants will cost today. This "dynamic-duo" will be available trol as standard. Customers can also have INR 10.5 Lakhs (approx: USD 13,904; GBP 11367) and INR 11.5 Lakhs (approx: USD 15,228; GBP 12,450) respectively. Whew! So much for that price.



Harshav P. Chikani FY-Automobile