

Activities Organized



Republic Day Celebration

26th January, 2022



Pratima Pujan of The Great Shivaji Maharaj on the occasion of **Shivjayanti**, 19th February, 2022.



National Youth Day was celebrated on the occasion of Swami Vivekanand's birth Anniversary on 12th January, 2022.



Cleanliness Drive was organized by Rajarambapu Institute of Technology, Rajaramnagr on 05th March, 2022 in association with National Service Scheme (NSS), RIT.

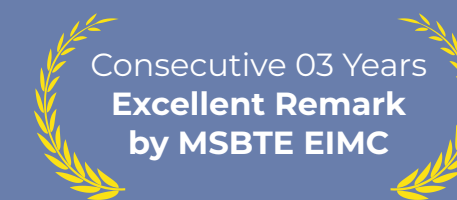


Kasegaon Education Society's

RAJARAMBAPU INSTITUTE OF TECHNOLOGY, RAJARAMNAGAR

Sakharale (Islampur) Tal. Walwa, Dist. Sangli, Maharashtra, 415414

DIPLOMA



NEWSLETTER

Semester wise Publication of RIT_Diploma
Issue I : January 2022 - June 2022

Institute Vision

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

Institute Mission

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

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NBA Accreditation

RIT Diploma is now **Accredited** by,



Automobile Engineering **03** Years

Civil Engineering **06** Years

Electrical Engineering **03** Years

Mechanical Engineering **03** Years

Newspaper Coverage



MSBTE Remark

Maharashtra State Board of Technical Education, Mumbai, External Institute Monitoring committee rewarded "Excellent" Remark to all the programs of RIT. This committee rewards to the institute on the basis of academics, Co-curricular and Extracurricular activities carried at institute, infrastructure, facilities available at the institute and available faculty.

Computer Engineering | **Computer Hardware & Maintenance**



Mr. Jafar M. M.
FIRST YEAR MECHANICAL
A. Y. 2021-22

RECENT SAFETY TRENDS IN AUTOMOBILES

The automotive industry in India is one of the larger markets in the world. India's passenger car and commercial vehicle manufacturing industry is the sixth largest in the world, with an annual production of more than 3.9 million Units. India witnessed one road accident every minute in 2011 which claimed one life every 3.7 minutes, one of the highest in the world (Hindustan Times). According to the latest Road Transport ministry report, a total of 4.97 lakh road accident was reported in 2011, the number of deaths at 1,42,485 has increased by over 7,000. So safety system becomes one of the most challenging objective in front of design engineer. Let us take review of recent safety trends in automobiles in India. Safety of cars against crashing is checked by two test as below & accordingly car is designed. Frontal crash tests are performed at 40 mph with instrumented dummies wearing standard three-point safety belts measuring crash forces to the chest, head and legs. In these "offset barrier" tests, only part of a vehicle's front end hits a deformable barrier that simulates the front of another car or truck. However, be aware that frontal crash tests are only useful when comparing vehicles within a specific weight class. A highly rated subcompact car won't necessarily perform better in a collision than will a lower rated full-size model. That's because the laws of physics dictate that larger and heavier vehicles inherently offer greater crash protection than do smaller and heavier ones. Side-impact tests utilize a moving deformable barrier approximating the front end of a pickup truck or large SUV that strikes a 2013 models. Rear-end collisions are simulated using a combination of static measurements and active crash-dummy testing to determine how well the vehicles' seats and head rests support their occupants in a rear-end collision at 20 mph. Though few deaths occur from rear-end crashes they're one of the most common causes for whiplash-type neck injuries, which result from the sudden jerking forward of an occupant's head and torso. IIHS data shows that it lowers the risk of a deadly crash by 33 percent and cuts the risk of a single-vehicle rollover by 73 percent. Three systems which are fast becoming vehicle at 31 mph. Instrumented test dummies are positioned in the driver's seat and the rear seat behind the driver, with each representing a small female or adolescent child; the IIHS(Insurance Institute for Highway Safety ,USA) uses smaller dummies here because its data suggests that women are more likely than men to suffer serious head injuries in a side impact (their heads tend to be positioned lower in the window area where they're more vulnerable). Unlike frontal impact tests, the results of sideimpact crash tests can be compared across all vehicle size and weight classes. Rollover protection ratings are based on roof crush tests. To earn a "Good" rating, a vehicle's roof must be able to withstand a force of four times its own weight before reaching five inches of crush depth. The IIHS estimates that such roofs reduce the risk of serious and fatal injury in single-vehicle rollovers by about 50 percent compared with those that merely meet the federal minimum requirement for crush resistance. A new federal standard for roof strength will phase in beginning with available in mainstream models, namely blind-spot and collision warning/avoidance systems.

Students Article

Blind-spot warning employs a set of sensors and/or cameras to detect other cars just to the side and rear of a vehicle and alerts a driver to their otherwise unseen presence. Some blind spot warning systems further include a Cross Path Detection function that also warns motorists of traffic that's approaching from the side when backing out of a parking space or garage. Infiniti's latest twist on the technology, called Blind Spot Avoidance, will actually intervene with selective braking to help a motorist avoid sideswiping another vehicle. Lane departure warning helps keep inattentive drivers from inadvertently veering into another lane of traffic and causing a collision, which the National Traffic Safety Administration says accounts for 17 percent of all vehicle crashes. The system looks for highway lane markings via an embedded camera and generates a signal if the vehicle is in the process of crossing them; engaging the turn signals before purposefully changing lanes temporarily deactivates the alert. A few systems can "nudge" the car back into their lane if necessary via braking or steering intervention. Collision warning/avoidance works with an advanced version of cruise control that uses sonar sensors to maintain both a set speed and distance from the nearest car in its path. If the sensors determine the car is closing in on the vehicle or other obstruction in its path too quickly, it will engage audible and visual alerts, tension the safety belts and pre-prime the brakes to full force in anticipation of an emergency stop. Lexus' system goes a step further by using a small camera to monitor the driver's eyes and will activate itself sooner if he or she is not looking forward at the time. Some systems will take over and apply the brakes if the driver isn't reacting quickly enough to help avoid or minimize the impending collision. It will automatically slam on the brakes to help prevent collision with another vehicle or a pedestrian at slower speeds.

The recent cars involving such features are:

1. Fiat 500
2. Ford figo.
3. Honda Insight
4. Hyundai Elntra
5. Toyota corolla
6. Honda FOCUS.



Safety System in FIAT500
Image Source : Internet

Activities Organized



Department of Electrical Engineering Diploma organized Industrial Visit for TY Students to Pai Kane group goa, leading manufacturer of all types of generators and LT control panels.



Department of Civil Engineering Diploma organized Industrial Visit for SY civil Students to "Zuari River Cable Stay Bridge, Panjim Goa" under Railway and Bridge Engineering Subject at Goa on 24th March 2022



Department of Mechanical Engineering Diploma organized Industrial Visit for Third Year Students to "Synergy Green, Kolhapur" on 07th April, 2022.



Department of Automobile Engineering Diploma organized Industrial Visit for Second and Third Year Students to Essel Propack Limited, Goa Plant.



TATA Indian Institute of Skills, Mumbai and RIT Diploma organized one week Hands on Session for Students of Third Year Automobile, Electrical and Mechanical Engineering Program. Total 100+ Students were participated for this Training Program.



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Activities Organized



Department of Computer Engineering & Computer Hardware Maintenance Diploma organized Industrial Visit for FY Students to Rajarambapu Dudh Sangh, Islampur



Department of Diploma Computer Engineering and Computer Hardware Maintenance organized a Guest lecture by Mr. Sagar Sawant, Reliance Industries Limited for First Year Students.



HACKATHON 2K22

- On 27th and 28th May, 2022 **HACKATHON 2k22** event was organised by Computer Science Engineering Department. For the same 06 groups have participated from Diploma.
- Team **Automobile** Engineering secured **1st Rank** in Automotive Track; Project Guide : Mr. R. Y. Chavan
- Team **Mechanical** Engineering secured **1st Rank** in Diploma Track; Project Guide : Mr. S. D. Gaikwad



Department of Mechanical Engineering Diploma organized One Day Workshop on Question Paper Setting for Diploma Faculties.



Visit of External Institute Monitoring Committee to K. E. Society's Rajarambapu Institute of Technology, Rajaramnagar on 13th May, 2022.

Our Proud Recruiters

- » American Axel Mfg., Pune
- » B. G. Shirke Construction, Nashik
- » Bajaj Auto, Pune
- » Bharat Forge, Pune
- » BOSCH, Pune
- » Carraro India, Pune
- » Cummins India, Pune
- » Dhoot Transmission, Aurangabad
- » RDC Concrete, Mumbai
- » WIPRO PARI, Pune
- » Digit Insurance, Mumbai
- » EPL, Mumbai
- » Flex Electronics, Pune
- » Infosys, Mumbai
- » Jonh Deere, Pune
- » Kay Bouvet, Satara
- » Kirloskar Brothers Ltd., Pune
- » KSB Pumps, Pune
- » Sehgal Autoriders, Pune
- » TATA Motors, Pune
- » Synergy Green, Kolhapur
- » LMT Tool Pune
- » Magma HDI Insurance, Pune
- » Magna International, Pune

...any many more

Activities Organized



DIPLOMA ANNUAL SPORTS



DIPLOMA ANNUAL SPORTS

Diploma Annual Sports were conducted on 19th and 20th March, 2022 with events like Cricket, Volleyball, Athletics etc. games.



Celebrated International Yoga Day on 21st June, 2022. The Morning Yoga Session was organised in Blended Mode for all Students, Faculty and



Blood Donation camp was organized by RIT National Service Scheme unit on 28th March, 2022.

Activities Organized



Marathi Rajbhasha Din

28th February, 2022



DISTRICT'10
A STATE LEVEL TECHNICAL EVENT FOR POLYTECHNIC STUDENTS



- K. E. Society's Rajarambapu Institute of Technology, Rajaramnagar (Diploma) organized A state Level Technical Event **District'10** for Polytechnic Students in Association with RIT ISTE Chapter MH-084 on 30th April, 2022. Total 515 Students have enrolled for District'10 from different Polytechnic Institutes.
- Different Events like Technical Topic Presentation, Think Blink Fix Up, CAD Master, Circuit Hub, Quiz Competition, CAD Star, Poster Presentation were conducted.



RIT
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

75
Azadi Ka
Amrit Mahotsav

- Patriotic Group Song Competition for School Students was Conducted on the occasion of Republic Day in association with RIT National Service Scheme and Radio Sugar 90.8 FM Community Radio Station.
- Total 25+ Schools were participated in this Competition.

