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Upskilling
for the
Future



SHORT TERM TRAINING PROGRAMME (STTP) ON ELECTRIC NON-POLLUTING VEHICLE: DESIGN, DYNAMICS & MANUFACTURING

A STTP was conducted at Bansal Institute of Science & Technology from 16th to 18th December 2019. There were about 80 students who participated in this training programme.

The programme was inaugurated by Chief Guest, Professor S C Choube, Coordinator, TEQIP. Dr Choube in his inaugural address emphasized upon the need of being updated with the present technological developments in the field of automobile engineering.

The keynote address was delivered by Dr Anand Pare, Professor, Department of Mechanical Engineering, IIT Indore. The topic was, "Condition Monitoring Strategies for e Vehicles" in which the students gained an insight into the challenges and opportunities for monitoring of electric vehicles while they are subjected to high loads and changes in ambient conditions.

The training programme continued with the design and development of electric bike. Manufacturing/Fabrication

of electric vehicle was conducted in the College Workshop. The training sessions included designing of Frame, Chassis, Transmission and Steering mechanisms in Catia V5 R19. Battery and Motor

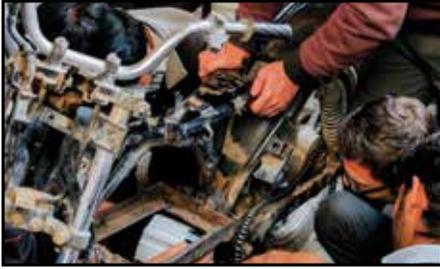
Calculations and Selection criteria as per the required specifications were taught to the students. Hands on training was provided to the participants. The final product component specifications are 750 W motor controller, 750 W dc motor, Battery of 48 V and 18 AH capacity. The vehicle on an average will run 40 km in single charging.

The programme concluded on 18th December 2019 in which Dr V.K.Jain, Professor(Retd.) from IIT Kanpur graced the Valedictory Session. His lecture titled Manufacturing: Vision for Future, he explained about the recent trends and techniques of manufacturing like Rapid prototyping and additive manufacturing. The students gained a deep insight into the advantages and applications of additive manufacturing in the field of automobile engineering.



IN-HOUSE TRAININGS

E-BIKE



An electric bicycle also known as an e-bike is a bicycle with an integrated electric motor which can be used for propulsion. Training on E-bike was organized from 16th Dec. to 23rd Dec. 2019 for BIST/BIRT/BIRTS EC/EX/ME Branch III&V semester students. Many kinds of e-bikes are available worldwide, from e-bikes that only have a small motor to assist the rider's pedal-power (i.e. pedelecs) to more powerful e-bikes which are closer to moped-style functionality. All retain the ability to be pedaled by the rider and are therefore not electric motorcycles.

E-bikes use rechargeable batteries and the lighter ones can travel up to 25 to 32 km/h (16 to 20 mph), depending on local laws, while the more high-powered varieties can often do more than 45 km/h (28 mph). In some markets, such as Germany as of 2013, they are gaining in popularity and taking some market share away from conventional bicycles, while in others, such as China as of 2010, they are replacing fossil fuel-powered mopeds and small motorcycles.

Depending on local laws, many e-bikes (e.g., pedelecs) are legally classified as bicycles rather than mopeds or motorcycles. This exempts them from the more stringent laws regarding the certification and operation of more powerful two-wheelers which are often classed as electric motorcycles. E-bikes can also be defined separately and treated under distinct Electric bicycle laws.

E-bikes are the electric motor-powered versions of motorized bicycles, which have been in use since the late 19th century. Some bicycle-sharing systems use them. The first pedal-assisted bicycles appeared in India in 1993. In 2008, the sales of e-bike sales exceeded moped sales. In recent years, 2-passenger and even 3-passenger (two adults and a child) e-bikes were introduced in India.

JAVA



Training on JAVA was organized from 16th Dec. to 30th Dec. 2019 for BIST / BIRT / BIRTS, CSE / IT Branch III & V semester students. It is class-based, object-oriented, and designed to have as few implementation dependencies as possible. It is intended to let application developers write once, run anywhere (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The syntax of Java is similar to C and C++, but it has fewer low-level facilities than either of them. As of 2019, Java was one of the most popular programming languages in use according to GitHub, particularly for client-server web applications, with a reported 9 million developers.

Applications of JAVA are:

- Mobile applications (especially Android apps)
- Desktop applications
- Web applications
- Web servers and application servers
- Games
- Database connection etc.

PROJECT DEVELOPMENT TRAINING



Two weeks of "Project Development Training" was organized for BIST/BIRT/BIRTS CSE-VII-Sem students from 16th Dec. to 28th Dec. 2019. The Project Development Training aimed to provide opportunities to Students to enrich their

Project Making skills.

The Programme also intended to enhance students' knowledge for simulation with advanced software in the relevant field for inculcating learning values in students and guiding and monitoring their progress.

REVIT



Learning something different is always beneficial. All these years' architects and civil engineers have been using AutoCAD in their professional commitments. However, with the technology now advanced from 2D to 3D, Revit has come to the forefront as a vital BIM tool for both the professionals and its huge growth and popularity amongst AEC professionals has led to the creation of several Revit jobs in various parts of India. An in-house training on E-bike was organized from 16th Dec. to 30th Dec. 2019 for BIST/BIRT/BIRTS CE Branch III & V semester students.

Revit is a Building Information Modelling software developed by Autodesk. Revit not only captures the reality but it's also the ultimate tool to convey the project ideas and scopes to the clients. This all important software has got some fascinating features such as walk through, rendering, etc. where you can represent the reality of the buildings, interior and structure virtually. Also, the software has got its own precisions and efficiency.

Revit possesses three different software, architecture, structure and MEP. Revit architecture is extremely user friendly and there are particular tools to build walls, doors, windows and other components which aren't available in AutoCAD. Also, drawing in 2D automatically produces a 3D model which is extremely advantageous. One can also edit the material of the structure and use the properties.

Revit, though, is quite useful to civil engineers as it helps deliver the best performance by making virtual representation of building products. Right from the design development and coordination, 3D Modelling and drawing set creation to quantity take-off, civil engineers will know about the individual product specifications of the building such as tolerance, color, cost and other information and thus be able to make informed decisions.

BANSALOTSAV - 2020

FESTIVAL OF TECHNICAL, CULTURAL & SPORTS



Bansal group of Institutes (BGI) organized its Bansalotsav-2020 (Festival of Technical, Cultural and Sports Events) from 3rd Jan. to 8th Jan. 2020.

The Tech-fest aimed to bring together students from various colleges with their innovation and different ideas they have implemented in their four years of academics.

Dignitaries present in the event were:

- Shri Digvijay Singh, Member of Paliament, Rajya Sabha
- Dr. Sunil kumar, Vice Chancellor, RGPV
- Shri Sharad Dwivedi, Chief Editor, Bansal News
- Er. Sunil Bansal, Secretary BGI
- Smt. Pooja Bansal, Treasurer BGI

- Dr. Sanjay Jain, Joint Secretary, BGI
- Dr. Satish Nayak, Director BCP
- Dr. Khurasia, Director BIST
- Dr. Aditya Vidhyarthi, Director BIRT
- Dr. Narendra Dave, Director BIRTS
- Dr. V.K. Dwivedi, Director BCE

Event started with lamp lighting by Chief Guest along with other dignitaries. The Chief Guest Shri Digvijay Singh appreciated the fact that in spite of recession all over the world, Bansal Group of Institutes could manage to provide 90% placement to its eligible students. The Chief Guest also highlighted different ways in which students can come up with the ideas of innovation and can do remarkable things with the resources available in the Institute. Dr.H.B. Khurasia, Director BIST welcomed guests and briefed about the college. Dr. Sanjay Jain, Joint Secretary BGI addressed the gathering and highlighted the achievements in various dimensions including patents.

There were apporimately 1000+ entries in various cultural, technical and sports events.

Technical events included- Lan Gaming, Quiz, CAD Competition, Debugging, Model competition, Robo race, Web designing, E-mail writing, Tech-poster, Tech-rangoli, Best out of waste, Treasure Hunt, Short film making and Circuit designing. Students of various semesters and various colleges competed in sports events including Chess, Carom, Table tennis, Basketball, Volleyball, Kho-kho, Gully cricket, 100 mts race, 200 mts race, 4* 100 meter relay race, Shot-put throw, Long jump and Tug of war. The talented students presented mesmerizing cultural events such as folk song, classical dance, folk dance, motivational skit, extempore speech and Picture story composition. Hon'ble Chief Guest distributed prizes of various events to the students. Also, 92 faculties of the Group received the Excellence Faculty Award of cash prize of 50000 each for the odd semesters.

BGI EVENT CALENDAR



A workshop on 'Awareness on NBA accreditation 'under TEQIP-III' was organized at BIST on 24th Dec, 2019. Dr. K. Ravindra, Principal, Malla Reddy Institute of Technology & Science, Hyderabad was the Keynote speaker. This workshop helped in

introducing National Board of Accreditation (NBA) standards to the stakeholders of technical institutes i.e. faculties, students and management. It also assisted in improving the quality of the graduates and services in the institutes.

On 16th Dec 2019 eighty six students of BIST first semester received the 'Excellent Attendance Award' for securing attendance above 85% in the academic session July -Dec. 2019.



Muskan Singh of BIST, IT Branch first semester got selected in Basketball National Team.

NSS volunteers, students and teachers organized an awareness rally "Shuddh ke liye yuddh" from Roshanpura square to Lal parade ground on 15th Dec 2019.



On 10th December Bansal college cricket team won the quarter final match of Nodal & State Level Cricket Tournament against RGPV team at RITS Bhopal.

The Alumni Meet is conducted every year in order to reconnect with the alumni and celebrate their success and various achievements. Continuing with the tradition, BIST organized the 'B.I.S.T.A.A. Alumni Meet' on 22nd Dec 2019. Around 150+ Alumni attended the meet and gave their valuable feedback and suggestions for the betterment of Institute and Alumni Association. Approximately 100 faculties and staff members were also present in the meeting.



To build a bridge between college life and career life, so as to introduce present students to the professional world and to make them proactive to face challenges that may emerge in their career path, BCP organized its Alumni Meet 2020 on 5th Jan 2020. Around 200 students across India participated in the meet.

BGI organized an 'Excellence Faculty Award Ceremony' on 8th Jan 2020. Over 92 Faculty members from various disciplines received this prestigious award.



A STTP on "Recent Trends in Data Science and Big Data : A Practical Approach" under TEQIP-III was organized on 14th & 15th Oct., 2019 at BIRT Seminar Hall. The resource persons of this STTP were Dr. Shailendra Singh, NITTTR, Dr. Kanak Saxena, SATI-Vidisha, Dr. P.S. Patheja, VIT, Bhopal and Dr. Saritha, MANIT-Bhopal.

Anjali Lodhi of BCP, 6th Sem. won the gold medal in folk dance in the 19th Edition of NSS M.P. Camp organized from 3rd Jan. to 9th Jan. 2020 at Jhoteswar, Narsinghpur.



From :



BANSAL INSTITUTE OF SCIENCE & TECHNOLOGY
ENGINEERING | PHARMACY | MANAGEMENT | COMPUTER APPLICATIONS

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