



SAGAR GROUP OF INSTITUTIONS®

SISTec-Ratibad B U L L E T I N

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SAGAR GROUP OF INSTITUTIONS®



MUTUAL DEVELOPMENT PROGRAM - BEING TOGETHER

“You need to be aware of what others are doing, applaud their efforts, acknowledge their successes, and encourage them in their pursuits. When we all help one another, learn from one another, everybody wins.” With this thought of Learning in Unison, **“Being Together”** - Two-Day Mutual Development Program had been conducted on 25th & 26th November, for all its staff members.

The first day kicked off with a session on “Self Development” by Life Coach and Corporate Trainer of SISTec-R Mr. Anish Saxena.



On the second day Dr. Ritu Nanda, Clinical Psychologist, Therapist & Counsellor - Sagar Group of Institutions conducted a breathtaking session on "Mind Management for Achieving Excellence" which ended with a relaxing mind calming activity followed by an interactive Q&A segment. Management games Pin the Elephant Tail, Untangle the Tangled and Balloon Buddy were held subsequently which were hosted by the HR team of Mrs. Sreena Sreedharan and Ms. Apoorva Pachori. The program ended with an award ceremony for the management games winners – Prof. Ajit Kumar Shrivastava for Pin the Elephant Tail, Prof. Kshitij Yugbodh & Prof. Ashish Singhal for Balloon Buddy and Prof. Ajit Kumar Shrivastava and his team for Untangle the Tangled. The program was met with great enthusiasm and active participation by all staff members leading to best learning outcome.



MUTUAL DEVELOPMENT PROGRAM - GOOGLE AND MOODLE

An organization's ability to learn, and translate that learning into action rapidly is the ultimate competitive advantage. In this era of technology usage, with the aim to make our staff well versed with the Latest online platforms, the institute conducted a Two Day Mutual Development Program on "**Google and Moodle**" wherein basic concepts of Google Products (Gmail, Google Drive and Google Docs) and Moodle (open source learning management system) were explained with hands-on training for all employees. The sessions held on 4th & 5th December were oriented towards the effective usage of various Google Tools in day to day work culture and more on Moodle Platform for efficient academic implementation.

The session was headed by Prof. Rohit Bansal from Computer Science & Engineering Department. The program was very beneficial and gave brief details about cloud working, data synchronisation, data security, data organisation and data management.



FINALIST OF NATIONAL CONVENTION OF AICTE CHHATRA VISHWAKARMA AWARDS 2019 | "TEAM PRITHVI" & "TEAM MANTHAN"

Passionate innovators cum technology follower teams of SISTec-Ratibad –**Team PRITHVI** and **Team MANTHAN** participated in Regional Convention of Chhatra Vishwakarma Awards 2019 after clearing the initial two preliminary selection rounds of Proposal making and Video PPT submission followed by live display in the specified regional centres where they were shortlisted for National Convention to be held in New Delhi.



The project '**Solar Based Rural E-Bike**' made by "**Team Manthan**" from Department of Electrical Engineering was headed by Akriti Bhatt and joining her was the team of Ankita Kanathe, Vijay Prajapati and Vishal Khampariya under the mentorship of Prof. Priyanka Rajawat. Solar based Rural E-Bike is zero pollution Battery operated vehicle that is very economical with low maintenance cost. This bicycle operates on rechargeable battery which can be charged either by a charger or a solar panel (PV Module).



"**Team Prithvi**" from Department of Mechanical Engineering presented their project '**Design and Fabrication of Refrigerator cum AC cum Heater**' in this regional convention. The project was headed by Vishal Dhanware and assisting him were team members Vishal Namdeo, Shivam Singh and Sachin Lowanshi under the mentorship of Prof. Bhoopendra Singh. In this project, a single unit is performing the function of Refrigerator, Oven (using wastage energy of condenser) and Air Cooler (by increasing the little bit load on compressor). This project is very useful in villages and can be widely used by low cost investors.

SEMESTER BREAK TRAININGS

As per the Bloom's Taxonomy, the professional development of the students is done through three required skill development capsules such as Knowledge based, Emotion based and Action based. The student centric methods develop the learning levels such as:

Lower order learning levels: Remember, Understand, Apply

Higher order learning levels: Analyze, Evaluate, Create.

"I HEAR I FORGET. I SEE AND I REMEMBER. I DO AND I UNDERSTAND".

Hands on learning or Experiential Learning is one of the few learning methods that can have a dramatic impact on the learner's mind. Experiential learning facilitate students develop knowledge, skills, and values from direct experiences outside a traditional academic setting and applying the conceptual understanding to real-life situations.

Semester Break Trainings are one of those experiential learning methodologies that are in practice at SISTec-Ratibad to promote student centric methods of teaching learning in place of conventional teaching learning processes to transfer the knowledge. These trainings were held for all engineering streams across all semesters during 10th December, 2019 to 7th January, 2020.

Department of Mechanical Engineering - Semester Break Training

Department of Mechanical Engineering conducted Semester Break Trainings for students to get them acquainted with industry standards and have hands-on experience for their future corporate requirements.

"Mechatronics" by Prof. Rahul Agarwal, **"Measurement and Metrology"** by Prof. Prashant Bajpayee and **"Basics of MS Office"** by Prof. Anupam Singh were the key highlights of this training program where sessions on principles of mechatronics, types of sensors, Arduino IDL, LCD Display interface, types and applications of motors, unit conversion of mechanical parameters, uses of mechanical instruments (micrometers, vernier,

sine bar, combination set, calibration gauge, pluck gauge, ring gauge, screw pitch gauge), spreadsheet formatting and functions, cell referencing, conditional function and data analysis were taken.

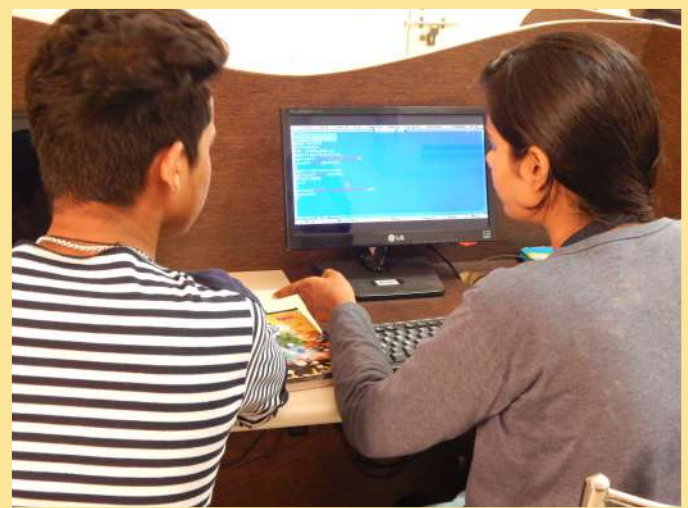


Department of Civil Engineering - Semester Break Training

Department of Civil Engineering organized lab and field based Semester Break Trainings for students to instill the workings and requirements of civil engineer in the outside world. Prof. Prahalad Dubey took sessions on building materials (brick, cement, concrete), their composition, properties, classifications, uses, tests and their relative codes. Prof. Anshul Jain gave an overview of environmental engineering comprising of water quality standard using various water samples and waste water treatment methods. Mr. Bablu Mansuri took sessions on field practices and site works comprising of quality checks, suggestive practices, bar bending & scheduling and reinforcement detailing. Prof. Robin Gurjar delivered session on scope of soil in civil engineering with soil sampling to determine its properties and usage. Prof. Shyamoo Jaitiya took sessions on Importance and Scope of Civil Engineering in various fields. Under “**Surveying of SISTec-R**” supervised by Prof. Robin Gurjar, Mr. Bablu Mansuri and Mr. Chandra Shekhar Gayakwad students mapped the entire campus and created layouts and drawing by determining reduced level of longitudinal profile and filling-cutting calculations.



Electronics & Communication Engineering - Semester Break Training



Department of Electronics & Communication Engineering administered the Semester Break Trainings on “**Basics of Electronic Components**” and “**Data Structure**” for the students to familiarize them with basic electronic components functioning within a circuit and writing algorithms & solving problems with the help of fundamental data structures. The trainings were headed by Prof. Devendra Singh Mehra, Prof. Anidra Katiyar, Prof. Namrata Shrivastava and Mr. Ritesh Dhiman in which the following topics were covered – color coding, value identification, series & parallel connections, overview of breadboard & different combinations of R, L, C; applications of Diodes, configuration of Bipolar Junction Transistor (BJT), algorithm analysis, space complexity, linear list, arrays, stacks and queues.

Computer Science & Engineering - Semester Break Training

Department of Computer Science & Engineering conducted Semester Break Trainings with the perspective to make students employable as per the need of software industries. The department covered the topics of **“Computer Hardware & Assembling with Installation of Operating Systems”** by Prof. Rohit Bansal and Prof. Pankaj Kumar Singh, **“Programming Using JAVA”** by Prof. Arvind Jain and Prof. Dharmendra Jha, **“Project Based Training”** by Prof. Amit Ganguli, Prof. Rohit Bansal, Prof. Dharmendra Jha and Prof. Pankaj Singh.



During the month long training, students learned about the functions of various components of computer system and their assembly. They learned to diagnose basic faults on the basis of sound. Students of 4th semester programmed for small projects like implementing cryptographic techniques, developing keyboard operated games using the C programming language. Students of higher semesters learned to develop projects using different programming languages like JAVA, PHP, Python and Client side Scripting.

Department of Electrical Engineering - Semester Break Training

Department of Electrical Engineering conducted Semester Break Trainings for students to make them aware with industry standards and have hands-on experience for their future corporate requirements. **“Concepts of Instruments and Transformers Faults”** by Prof. Ashish Singhal, **“Magnetism and its Circuit Analysis”** by Prof. Pankaj Sharma, **“Power Electronics”** by Prof. Kavita Kushwah, **“Basics of Circuit Analysis”** by Prof. Priyanka Rajawat and **“Science Projects with TRASH, Project Installation”** by Prof. Prasant Kumar were the key highlights of this training program where sessions on principles of Electrical Engineering, types of machines, types and applications of motors and generators, per unit concepts, uses of electrical measuring instruments (shunt, multiplier, CT, PT, bridges), PID controller, transmission line performance, generation types, losses of machines and remedies for them, circuit breaker, main break isolator, PLC SCADA were also taught.



SAGAR MANTHAN

'SAGAR MANTHAN' is a week-long Campus Recruitment Training Program. Behind its well-designed framework is the notion of increasing the overall employability index of our budding engineers and for this reason feedback is taken from recruiters and amendments are made to its curriculum, every year. To implement the theoretical conventional learning on practical grounds, to acquire self-directed learning skills and ability to integrate ideas and concepts, the institute conducted yet another version of its prestigious Annual 360° Placement Oriented Training Programme – "Sagar Manthan" from 27th December 2019 to 3rd January 2020.

The program is custom designed for 6th Semester Engineering Students to help them with requisite skills of Placement & Training namely aptitude, communication skills, group discussions, personal interview, technical interview and all over personality development.

The inauguration ceremony was commenced by welcoming words from Trainer at SISTec-R Mr. Anish Saxena followed by ceremonial lamp lighting by Principal SISTec-R Dr. Jyoti Deshmukh, General Manager Administration SISTec-R Mr. Rahul Mishra, Dean Academics and Head of Training SISTec Dr. Abhishek Tripathi and Trainer SISTec-R Mr. Dhiraj Prasad. Dr. Jyoti Deshmukh gave an inspiring speech on the importance of such training programs and how they help build students ready for placements.



Mr. Rahul Mishra shared anecdotes from his engineering days and said that programs like these are helpful for students to get accustomed to industrial working.

Dr. Abhishek Tripathi took a Personality Development session where he shared information on how students should carry themselves and operate effectively and efficiently in corporate. During this week long training program the students were guided and trained by a team of skilled trainers having a rich corporate experience themselves.

Following sessions were covered during this week long training program — CV Making Activity, Aptitude Session, Reasoning Session and Communication Skills Session by trainers Mr Anish Saxena, Mr. Badal Bose, Mr Dhiraj Prasad and Mr. Vikrant Bhadouriya. In addition to the above sessions mock interview sessions, Co Cubes/Infosys mock paper and TCS/Wipro mock papers were also conducted by the training team. The training program ended with a valedictory ceremony where Mr. Manish Kumar, Ms. Sanjana Rajput and Mr. Ravi Ranjan Mahato from Mechanical, Computer Science and Computer Science departments respectively were awarded as star performer based upon their attentiveness, active participation and their performance during the program.



GRACIOUS HOST AND PROUD CHAMPION OF SAGAR SPORTS REUNION 2020 — SISTec-RATIBAD

"Healthy Body, Healthy Mind, Healthy Organization" is the mantra of today's successful industry. **Sagar Sports Reunion** is one of such initiatives by **Sagar Group** which motivates its employees to stay fit and to be happy. Like every year, Sagar Institute of Science Technology & Research (SISTec-R) Ratibad Campus organised their most awaited event **"The Sagar Sports Reunion 2020"**, on 4th and 5th January, 2020. It is an annual event which is a platform for all entities of Sagar Group to reunite and meant for the physical well-being of **"The Sagarians"**. The opening ceremony hosted by Mrs. Sreena Sreedharan (HR SISTec-R) commenced with taking blessings from Maa Saraswati and lighting the ceremonial lamp by Dr.



Jyoti Deshmukh (Principal SISTec-R) and Mr. B.S. Kushwaha (Administrator SISTec) in the presence of Mr. Siddharth Agrawal (MD Sagar Group), Mr. Sagar Agrawal (Director Sagar Group) and Mr. Amit Johri (Chief General Manager Sagar Group). The opening ceremony continued with a welcoming speech by Mr. Rahul Mishra (General Manager Administration SISTec-R) followed by an inspiring address by Mr. Siddharth Agrawal. Mr. Siddharth Agrawal and Mr. Sagar Agrawal along with Mr. Arun Verma (Sports Officer SISTec-R) hoisted the Institute Flag for the glory and respect for

the game. Mr. Akshat Shukla (Manager Admissions SISTec-R) delivered the oath ceremony with everyone pledging to honor and respect the game and gameplay. Mr. Siddharth Agrawal declared the commencement of the **10th "The Sagar Cricket Reunion" for Gentlemen & 7th "The Sagar Badminton Reunion" for Gentlewomen.**

The participating teams from the group were Agrawal Builders, Sagar Manufacturers Pvt. Ltd. (SMPL), Sagar Nutriments Pvt. Ltd. (SNPL), Sagar Institute of Science & Technology (SISTec), Sagar Institute of Science, Technology & Research (SISTec-R), Sagar Public School Saket Nagar (SPS SN), Sagar Public School Gandhi Nagar (SPS GN) and Sagar Public School Rohit Nagar (SPS RN).

It was inspiring to witness the adrenaline rush, the pumped up energy and vigorous display of sportsmanship among the participants of Sagar Group.

On the second day an award ceremony was held which was graced by the presence of Shri Sudhir Agrawal (Chairman Sagar Group) where he felicitated the winners and runner-ups of the cricket and badminton matches. He also congratulated all the participants for their excellent display of sportsmanship. The award ceremony ended with a vote of thanks by Mr. Rahul Mishra.

The cricket matches were played on knockout basis after which SISTec-R and SISTec played the 1st semi final with SISTec-R winning. SMPL and SPS Rohit Nagar played the 2nd semi final with SPS Rohit Nagar emerging as winner.

The final match was played between SISTec-R and SPS Rohit Nagar with SISTec-R team emerging as winners with 17 runs. Man of the Series was awarded to Mr. Kamlesh Prajapati of SISTec-R.

The winners and runner-ups for Badminton matches were under technical Category (Sports person) winner Ms. Sonia Pal of SPS Gandhi Nagar & runner-up Ms. Seema Singh of SPS Gandhi Nagar and under non-technical Category (non-sports person) winner Mrs. Sonal of SPS Saket Nagar and runner-up Mrs. Neelam of SPS Gandhi Nagar.



FACULTY DEVELOPMENT PROGRAM ON LATEX

Harnessing the talent and potential of the teachers by training them through the Faculty Skill Development Program becomes imperative in today's demanding academic industry. SISTec Ratibad Department of Electrical Engineering successfully concluded Two Days Faculty Development Program (FDP) on "LATEX" during 11th & 12th January 2020 sponsored by **Rajiv Gandhi Proudयोगiki Vishwavidyalaya (RGPV)** under the Third phase of Technical Education Quality Improvement Programme (referred to as **TEQIP-III**).

Honourable Chief Guest, Dr. S.C. Choube, Coordinator TEQIP-III, RGPV, Bhopal inaugurated the event. He addressed the gathering and encouraged the participants to enhance their skills on LaTeX by this event so that this knowledge can be transferred to students also. He expressed his appreciation for organizing such training programme on LaTeX. In the precious presence of Dr. Jyoti Deshmukh, Principal SISTec Ratibad and all Head of Departments, the event was commenced with the lamp lighting ceremony in front of Maa Saraswati by the dignitaries. Principal Ma'am in her address to the faculties emphasised the need of training/development imparted to them to strengthen the documentation preparation and scientific content.



Under the guidance of the eminent experts Dr. Rajesh Kumar, Professor and HOD Electrical Engineering Department from MNIT, Jaipur and Dr. Akash Saxena Professor and HOD Electrical Engineering Department from SKIT, Jaipur, faculty members learnt many important topics like: Introduction of LaTeX, need to use LaTeX, difference of documents created by MS Word and LaTeX, basic structure of LaTeX document, How to write script, installation process of LaTeX, scripting language, to enhance the knowledge in different formatting domain of LaTeX, to make the participants acquainted to writing documents in LaTeX using TeXmaker, to form tables in LaTeX document, inserting images in LaTeX document, create bibliography in LaTeX document, to make presentations in LaTeX and an introduction of BEAMER.

SAGAR NEUTRON

“**Training is the essence of transformation**” and with this ideology, Training & Placement Cell @ SISTec Ratibad has begun with its peculiar training program “**SAGAR NEUTRON**” especially designed for First Year B. Tech. students to offer a complete shift to a student's personality. This Three-Day program planned between 9th to 11th January 2020 was inaugurated by Dr. Jyoti Deshmukh Principal SISTec-R in the presence of training team along with Dr. Abhishek Tripathi, Dean Academics and Head of Trainings. Followed by his session on Personality Development, Mrs. Prachi Shrivastava (Corporate Relations Manager) gave a very valuable & informative session on “**Placements & Future Outcomes.**” Communication Skills, Aptitude and Personality Development through various Management Games and Activity Based Learning were the key highlights of this program conducted by trainers Mr. Anish Saxena, Mr. Badal Bose, Mr. Dhiraj Prasad and Mr. Vikrant Bhadouriya. Additionally Pen Down your Career Activity, Vedic Maths, Brain Teaser Session and Team Building Activities were also conducted by the training team. The program ended with open-mic session where the students were given a chance to showcase their hidden talents and share their fruitful experiences.



KRISHI MANTHAN APPRECIATION AWARD

Department of Mechanical Engineering participated in the event “**KRISHI MANTHAN - PANCHAM**” (National Agri Business Summit - 2019) on 17th December, 2019 organized by SATI Vidisha & ISED Bhopal, where students demonstrated their project idea to farmers, farmer's organization (FPO/FPCs) and agri-business companies. Roshan Prasad, Manoj Kumar, Nitish Kumar Singh, Suraj Kumar Singh, Vipin Tiwari and Ajit Prasad had presented their project entitled “**Solar Multipurpose Farming Vehicle**” mentored by Prof. Bhoopendra Singh which can convert solar energy into mechanical energy by plowing and sowing in an acre field as well as spraying fertilizers, and once charged works for 4 to 6 hours. The project grabbed the **Krishi Manthan Appreciation Award** from the Chief Guest Mr. Shashank Bhargava (MLA Vidisha), Dr. Sunil Gupta (Vice Chancellor RGPV Bhopal) & Mr. Mayank Agrawal (Upper Collector Vidisha).

