



Shri Siddheshwar Devasthan Trust's Shri Siddheshwar Women's Polytechnic, Solapur T.P. No.-II, Plot No. 74, Rupa Bhavani Mandir Road, Bhavani Peth, Solapur

News Letter

News Letter Vol-26th Edition (July 2023- October 2023) Vol- I

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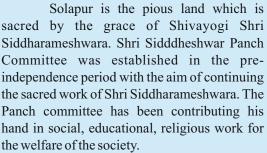
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Editor's Desk



Shri M.B. alies Karmayogi Appasaheb Kadadi who is the former president of the panch committee, established education hub for those people who are poor and downtrodden from the various communities. Appasaheb knows that education is a powerful tool for empowering women and promoting gender equality. So he started schools and colleges, especially unique for women empowerment.

President's Desk Shri. Dharmraj A. Kadadi



Taking the legacy of Appasaheb, we are setting up new educational institution, so that women can get advanced and socially useful education. To enhance women's economic independence, we established diploma engineering institute in year 2009. It is indeed a great pleasure to share that our institute has applied for NBA accreditation, New Delhi for the third consecutive time. I am hopeful, we will get the accreditation for the third time. This issue of newsletter addresses, departmental activities, faculty achievements, extracurricular activities, student achievements and new technologies that came into existence. I really appreciate and congratulate the efforts taken by the editorial board, staff, students, parents and our industrial partners for publication of Newsletter.

With Warm Wishes....!!



Principal's Desk Prof. Gajanan Dharane

It is a great pleasure and privilege in welcoming you to Shri Siddheshwar Women's Polytechnic, Solapur. We are working as per the objectives of NEP 2020, to bring progressive changes in Engineering and Technology which will bring progress and prosperity to our country. The way we teach and the way our students learn are unique and creative. We accord prime importance to the behavioural discipline, moral integrity and cognitive developments of our students along with Technical Education.

Recently, we applied for NBA Accreditation for

the 3rd time & I am sure that we shall get a desired result soon. This issue of Newsletter will send a positive signal to the staff, students and the person who are interested in the technical education and Technology based activities. Students have exhibited a great zeal and enthusiasm and have contributed significantly to the inter, intra college activities like Seminars, Workshops, Conferences, Placement programs, Technical and Cultural events etc. I congratulate the editorial team & all the students who participated in co-curricular and extra-curricular activities along with regular involvement in academics successfully.

1. EXPERT LECTURE



The invitation of experts as guest lecturers offers students the opportunity to meet passionate, committed and critical people and to learn from them in various ways. Guest lecturers provide an important educational experience for students based on their real-world life experiences. Students get to see the insight and perspective of the guest lecturers' specific field.



Expert Lecture on Road Drainage by Mr. Rajanavar A. N.

20-10-2023: Civil Engineering Department arranged the Expert lecture on Road Drainage by Mr. Rajanavar A. N. Assistant Professor, Civil Engineering Department, W.I.T, Solapur. under Highway Engineering for second year students. In the lecture, students were able to understand the definition of drainage & its types., Ms. Harsure M.S. and Ms. Gaikwad N.N. coordinated for the lecture.



Guest lecture on Database Management System by Ms. Pooja Mhetre

08-09-2023: Computer Engg department arranged guest lecture on "Database Management System" by Ms.Pooja Mhetre (Production Support, Capgemini India Pvt.Ltd) for second year students of Computer Engineering and Information Technology dept. She explained the details of PL/SQL Programming, Create and manage database using SQL Command and how to normalize database. Coordinated by Ms.Gundeli P.P,Mrs. Patil. B.S, Ms. JodmoteP.A



22-08-2023: Electrical Engineering department organized Guest lecture on Management by Prof. Avinash Lavnis , Assistant Professor, Mechanical Dept. for third year students. The outcome for this lecture was use basic management principles to execute daily activities and use principle of directing and controlling for implementing the plans. This lecture was co-ordinated by Ms. Patil P.B.



Expert lecture on Communication Standards & Protocol by Prof. Amruta Nimbargikar

26-09-2023: Electronics and Telecommunication Department organized Expert Lecture on Embedded System Topic- Communication Standards & Protocol.The Expert Prof. Amruta Nimbargikar (Professor, SSWCOE) Solapur. Course Outcome of the lecture was to interpret the communication standards of Embedded System. Mr. Mense P.P. organized the lecture for third year students.



Expert lecture on "Basics of Python Programming" by Ms. Vidhya Salunke

8-09-2023: Information Technology Department organized Expert lecture on "Basics of Python Programming" by Ms. Vidhya Salunke, Managing Director, Educadd, Solapur was arranged for Third year students of IF and CO department on. Ms. Nimbalkar S.C. and Ms. Dhale S.S. coordinated for the arrangement of this expert lecture

2. INDUSTRIAL VISIT



Industrial visits provide students an insight into the real working environment, workstations, plants, assembly lines, machines, systems, and interact with highly trained and experienced personnel. Students get to learn a lot of things that will help in their development and also for the future.



Visit to Ujani dam, Madha taluka, Solapur dist

25-08-2023: Civil Engineering Department arranged the visit to Ujani Dam, Madha Taluka, Solapur under Mechanics of structure, Highway Engineering & Building Construction, for second-year students so that they will be able to observe the component parts of dam like gallery, crest, parapet, heel, toe, etc. Also, the safety precautions on a dam, sizes of coarse aggregate hydraulic pumps, etc. Ms. Jamadar R. S. Ms. Gaikwad N. N. accompanied for the visit.



Industrial visit to Dream technology Bharath Ltd. Solapur 28-10-2023: Computer Engineering department arranged Industrial visit to "Dream technology Bharath Ltd. Solapur" for second year students. In this visit student learned how to select project, how to choose carrier and how to become a software engineer or developer or tester etc. And also provided information on new technologies.



Field Visit to Shri Swami Samarth Electrical Industry

17-10-2023: Electrical Dept. arranged Industrial visit to Shri Swami Samarth Electrical Industry for third year and Second year students. In this visit they learn manufacturing process of different types of transformers used in industry.



Visit to 95 FM Solapur

26-08-2023: Electronics and Telecommunication Department organized Visit to 95 FM Solapur for 2nd year students of E&TC Dept. Here students were able to learn the PLC based system and how FM station works, how live broadcast is done and how recording is done. Mr. Malage S.C. and Ms. Karpe A. U. accompanied for the visit.



Industrial Visit to Daily Sanchar, Solapur

9-09-2023: Information Technology Department organized Industrial Visit to "Daily Sanchar, Solapur" for Second year students. In this visit Students learned working of News paper designing. cutting. printing, folding & counting processes. Mrs. Talekar S.S. arranged the visit. Ms. Jadhav S.G. and Ms. Durshetti R.R. accompanied for the visit.

3. TECHNICAL WORKSHOP

Workshop on Maintenance & Repair of Structures

29-4-2023: Civil Engineering Department arranged the workshop for third year students under the Maintenance & Repair of Structures subject by Prof. Hedgire P.R, Assistant Professor, A.G Patil Institute of Tech, Solapur. In this student learned to test the structures and predict its stability. Ms. Jamadar R.S, Mr. Shille S.S and Ms. Gaikwad N.N. coordinated for the lecture.



Technical Workshop on Industrial Automation

26-08-2023- Electrical Department arranged 2 Days workshop on Subject of "PLC, SCADA & Automation" by Ms. Mohan Patel Assistant professor, for Automation and & Control, Surat for third year students. Expert gives demonstration of how automation technologies used in industrial applications.



12-08-2023: Electronics and Telecommunication Department organized 2 Days workshop on Subject of "PLC, SCADA & Automation" by Ms. Mohan Patel Assistant professor, for Automation and & Control, Surat for third year students. Expert gives demonstration of how automation technologies used in industrial applications.

4. ACTIVITIES BY NSS



Fire Safety Management

14-08-2023: National Service Scheme (NSS) unit is arranging various activities for student safety and improvement. under NSS shri Siddheshwar women's polytechnic arranged free expert lecture and Demo on Safety management for students. Demo was given by Mr. kedarnath Awate, chief Fire Officer, SMC Solapur. In the demo they taught students how to use basic fire safety equipment.



Wheat and Rice donation to Jaihind Food Bank Solapur

13-10-2023- Under NSS activity Students of Shri Siddheshwar Polytechnic Solapur Donated more than 800 kg Wheat and Rice to Jaihind Food Bank Solapur.

5. CULTURAL ACTIVITIES



Yoga Day

21-06-2023: International Yoga Day is celebrated every year on June 21. It serves as a global platform to raise awareness about the various benefits of practicing yoga. This year the theme of Yoga Day is – 'Yoga for Vasudhaiva Kutumbakam' i.e., yoga for the welfare of all in the form of 'One World-One Family'. It expresses the spirit of yoga, which unites and takes everyone along." Yoga day was celebrated with guidance of Yoga Instructor Ms. Aishwarya Bhairappa where students and faculty performed yoga.



Foundation Day

09-07-2023 : The foundation day of the institute was celebrated on 9th July in the presence of Adv. R. S. Patil, Mr. G. R. Malage, HODs & Faculty by tree plantation. The news letter Volume 24th Edition (Nov 2022- Feb 2023) Vol-II was also published.



Independence Day

15-08-2023 : Independence Day celebrated on August 15. Independence Day marks the end of British rule in 1947, brought about by the Indian Independence Act of July 18 that year, and the establishment of a free and independent Indian nation. This year we celebrated the day in the presence of Adv. R. S. Patil, Principal G. R. Dharane.



Teachers Day

07-09-2023: Teacher's Day in India was first observed in the year 1962. The day commemorated the birth anniversary of Dr. Sarvepalli Radhakrishnan. He was the first Vice-President and second President of independent India. the future of a country lies in the hands of its children, and teachers, as mentors, can mould students into future leaders who shape the destiny of India. They play an important role in our lives They help us to become good human beings, a better member of society, and an ideal citizen of the country. It was celebrated in the presence of Principal Mr. G. R. Dharane



Dahi Handi

07-09-2023: Krishna Janmashtami or Gokulashtami, marks the birth of Lord Krishna which is followed by Dahihandi. Which was celebrated by students of all departments by forming pyramids and breaking the handis also dance performances. Principal G.R Dharane, HODs & Faculty were also present for the celebrations.



Engineers' day

15-09-2023: Engineers' Day is observed every year on September 15 across India to celebrate the birth anniversary of M Visvesvaraya and recognize the contributions made by him in the field of science and technology. We also celebrate birth anniversary of Late Shri. Appasaheb Kadadi on the same day. To contribute in this our institute organized expert lecture on Career guidance by Hon,ble Maynal, Retired Class 1 Officer. Each department celebrated Engineers Day by arranging various competitions. Civil dept. organized model making, E&TC Dept. organized Project Exhibition & PPT, Computer dept. organized PPT, Poster presentation & Rapid Fire & IT department organized Blind C, PPT, Quiz, Treasure Hunt competition and by Electrical Dept organized Model making and Poster Presentation.



Fresher's Fest

18-09-2023: The best way to describe fresher fest is a welcome period for new students. It's a great chance to make new friends, get familiar with the college. Fresher's fest is also celebrated to crown a Ms. Fresher who is selected through various rounds of games and activities



Navratri Festival

21-09-2023: Navaratri is an annual Hindu festival observed in honour of the goddess Durga. Dandiya Fest was organized in Navaratri. Everyone participated in the dandiya fest held. Food stalls were also present for fasting people. On last day Khadenavami Pooja was done in all laboratories.



23.10.2023 - An institute magazine under the name of Siddh-2023 published at the auspicious hands of Hon'ble Dharmraj Kadadi, the President of Shri Siddheshwar Devasthan Trust, Solapur & Chief Guest Hon'ble Dr. Ravendra Chincholkar (Head of Mass Communication & Journalism Department, AHSUS University) in the presence of all the governing body members & trustees, Principal Gajanan Dharane. It shows the activities of students in the field of their extracurricular enthusiasm as well as their academic ventures.

7. EDP ACTIVITY





Udyojkta Vikas Yatra held at PAH Solapur University

21-08-2023: Shri Siddheshwar Women's Polytechnic students participated in "Udyojkta Vikas Yatra" held at PAH Solapur University organized by Incubation Center and Swawlambi Bharat Abhiyaan on Date 21 Aug 2023.



Entrepreneurship Development session Prof. Menase P.P conducted session on Entrepreneurship

Development.



Soft Skill Development session by Mr. Rajkumar Bake

07-10-2023 Training and Placement department arranged expert lecture on Soft Skill Development by Mr. Rajkumar Bake Sift Skill trainer ASK Academy, Solapur for third year students of all departments.

9. FACULTY DEVELOMENT PROGRAM



Three days FDP on EDA TOOLS & Virtual Lab

24-08-2023 to 26-08-2023: Electronics & Telecommunication Engg. Dept. organized 3 days FDP on EDA TOOLS & Virtual Lab. For the event Chief Guest were Hon. Mohan Patel (Assistant Professor/ Head Center for Automation & Control-PP Savani University, Surat).

Expert Trainer1 were Mr. Amod Harankhedkar (Project Coordinator Virtual Lab COEP, Pune) & Expert Trainer2 were Mr. Ashwin Abhang (Director, CATronix). On Day 1 guided on Introduction to Proteus Software, circuit Simulation, Schematic & PCB Designing, printout for PCB. On Day2 Introduction to EastEDA online schematic & PCB Designing tool, Basic Schematic Designing, symbol & footprint Creation, Selection of components (SMD/TH), PCB Design from Schematic, 3D views of PCB, Single Layer & Double Layer PCB Designing. On Day3 Printout creation for PCB Fabrication. GERBER file generation from PCB Layout, Creating A Simulation of Industrial control system to control temperature of room using Arduino & Programming the Arduino, VIRTUAL INDUSTRIAL VISIT. Total 84 faculties participated from all over Diploma College of Maharashtra.



Two days FDP on Intellectual Property Rights

15th & 16th September 2023: Electrical & Civil Engg. Dept. organized 2 days Faculty Development Program on Intellectual Property Rights is a program which enables faculty & academicians' awareness of the legal rights given to the inventor or creator to protect his invention or creation for a certain period. For the event Prof. Avinash Lavnis were the expert. For inaugural function Hon'ble R. S. Patilsir, Principal G. R. Dharane, Ms. Patil P. B. (HOD, Elelectrical dept.), Mr. Kandale A. K. (Hod, Civil Dept.), Mr. Aland S., all participants were present.

Prof. Avinash Lavnis discussed the meaning of IPR as a property & patent, laws for IP protection, International

conventions for IP, Organization offices for IP, validity of IPR, what can & can't be patented, Patent granting process & criteria to get a patent, examples of patents, etc. types of searches, patent classification, patent drafting with examples, types of claims, claim language, documents required to file a patent application, Indian patent application timeline, examination, responses & practical issues.

10. TECHNICAL ARTICLE



AN ASSESSMENT OF THE ROLE OF COMPUTER AIDED DESIGN (CAD) IN THE CONSTRUCTION INDUSTRY



Ms. Jogdankar A. L., Lecturer, Civil Engg. Department

ABSTRACT: The way people around the world carry out their day-to-day activities has been altered by the invention of computer. In order to evaluate the impact that computers have had on the industry, we looked at a number of publications as part of this study. We discovered that, despite a few obstacles, Computer Aided Design can significantly ease production, decrease costs, and boost profit margins in the clothing industry.

INTRODUCTION: Computer aided design is utilized across a wide range of enterprises and occupations, and can be utilized to make compositional plans, building plans, floor plans, electrical schematics, mechanical drawings, specialized drawings, outlines. Users can use it to create designs in either 2D or 3D so they can see the structure. With the rising utilization of computer aided design, design planners can make numerous varieties of a solitary plan and style and adjust it to shifting material and

example.

Purpose of CAD : CAD has taken the place of manual drafting

and is used by engineers, architects, and construction managers. Users can use it to create designs in either 2D or 3D so they can see the structure.

CAD enables the development, modification and optimization of the design process.

The development, modification, and enhancement of the design process are made possible by CAD. Engineers can easily modify more accurate drawings and enhance design quality with CAD. Additionally, the software considers various materials. In the end, productivity is increased when information is used effectively. In the end, this means that there will be fewer changes to the work and fewer surprises

during construction.

Brief History of CAD in construction : The early 1960s, Patrick Hanratty and Ivan Sutherland, are credited with inventing CAD. While working for General Electric, Hanratty fostered a program he called DAC, the principal framework which utilized intuitive illustrations and a mathematical control programming framework. Programs like Sketchpad made CAD possible in the 1960s. The CAD/CAM Hall of Fame claims that Sketchpad, in particular, laid the groundwork for current CAD versions. CAD really took off in the construction sector when it became precise enough to be used in engineering applications.

Advantages of Computer-Aided Design

[CAD] in construction :

^m Computer aided design allows you to get to your files from the cloud, so you can pull it up in a moment on the off chance that you needed to.

n It gives project managers the ability to visualize the building and all of its components, including the tiniest screws and steel beams. You will have access to an extremely precise building blueprint as a result, giving you the flexibility to alter design choices.

CAD for Solid Modelling : Due to the rising costs of construction and the creation of complex structures, CAD Solid Modelling is thought to be one of the most common practices utilized by various vendors for outsourcing purposes. The software uses cutting-edge tools to modify, create, analyse, and improve object models, as well as to make animations and special effects of projects and buildings.

The future of CAD: Generative Design : Convenience and speed will be the most important features of CAD software and technologies in the future. In the end, the design process ought to be made simpler, faster and more effective. Generative plan will move the job of creators, architects, and modelers. Engineers will collaborate with technology to create and focus on setting goals and criteria by using computers as drawing tools.

CONCLUSION : Hiring an AutoCAD Designer with experience

in computer-aided design (CAD) can greatly simplify the construction process, whether it be designing intricate architectural plans or complex building structures. Highend platforms like Toptal provide access to AutoCAD Designers with exceptional skills who can improve the precision and speed of your construction projects. The various benefits and types of CAD utilized in construction are discussed above.

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»Andotina, B. E. (2016). Importance of CAD / CAM Training For Fashion Design Students in Kenya. 6(2), 70–75. https://doi.org/10.9790/7388-0602027075

11. FACULTY ACHIEVEMENT



1. Dr. Neeta S. Alange of Information Technology Department has completed 3 days workshop as a Course/Faculty Expert for development of course content for 2nd Semester K scheme organized by MSBTE, Pune held during 11th to 13th Oct 2023.

2. Mr. Kandale A. K, Mr. Aland S. S., Mr. Dasari V.S, Ms. Maniyal S. P, Ms, Harsure Ms, Ms. Jamadar R. S. attended FDP on IPR organized by SSWP sponsored by ISTE.

3. Ms. Maniyal S. P attended Six day FDP program on Human Values & Impact on Youth by Thakur Polytechnic Supported by MSBTE.

4. Ms. Maniyal S. P published paper International Journal for Research Trends & Innovation Vol 8 Issue 09 Sept23 on An experimental study on effects of sea water on Compressive strength of concrete.

5. Ms. Jamadar R. S. & Ms. Harsure M.S published paper in International Journal for Research Trends & Innovation Vol 8 Issue 10 Oct 23 on Development in Pervious Concrete by using Green Technology.

6. Ms. Jogdankar A. L qualified NPTEL AICTE-FDP certificate on Geotechnical Laboratory, Qualified UCG-NTA Assistant Professor exam in Environmental Sciences and Got overall rank of 23 in ICAR AICE-JRF/SRF (PhD) exam

7. Mr. Mane N. K. completed One week Faculty Development Industrial Training Program by National Institute of Electronics Information Technology, Aurangabad.

8. Ms. Patil P.B. Mr. Gauda P.B., Ms. Ankalgikar S.P., Ms. Langote G.B., Mr. Mane S.S., Ms. Birajdar S.K, Ms. Kamble K.M completed Two days FDP Programme on Multilevel Attribute Secession Making Methods organised by Government Polytechnic, Solapur.

9. Mr. Vyas S.N completed 5 days FDP The role of teacher in NEP 2020 Implementation organized by DY Patil college of Engg. Akurdi,Pune. And 2 days FDP Multipal Attridute Decision Making Method organized by G.P.,Solapur.

10. Ms.Thokade A.R. completed 2 days FDP Multipal Attribute Decision Making Method and 2 days FDP in Conservation & Audit organized by G.P.,Solapur.

11. Ms. Mashalkar S.D. completed 5 days FDP Recent Trends In AI tools organized by DY Patil college of Engg. Akurdi,Pune. And 5 days FDP in The role of teacher in NEP 2020 Implementation organized by DY Patil college of Engg.Akurdi,Pune.

12. Mr. Menase P.P attended MaTPO (Western Zone) TPO-HR Summit 2022 orginised by MaTPO Association of Training & Placement Officer and completed workshop in NGO Management & Fundraising Workshop.

13. Mr. Hiremath S.S. of Information Technology Department has completed one week National Level FDP on Cloud Infrastructure(AWS) organized by Smt. Kashibai Navale College of Engg. Pune from 21st to 25th August 2023

REMARKABLE FACULTY ACHIEVEMENT

Dr. Neeta S. Alange, HOD Information Technology Dept. of Shri Siddheshwar Women's Polytechnic, Solapur has been awarded Ph.D. in Computer Science and Engineering from K L University, Vijayawada, Andhra Pradesh, for her



research work entitled "Improving File Operation Throughput in Hadoop Distributed File System (HDFS) using Ensemble Classifiers" held in September 2023.

This study was supervised by Dr. P. Vidya Sagar, Associate Professor, CSE Dept., KLEF, Vijaywada. She is highly thankful to the Shri Dharmraj Kadadi, President Shri Siddheshwar Women's Polytechnic, Management, Governing Body, Principal Shri Gajanan Dharane, faculty members and supporting staff for their constant support.

12. STUDENT ACHIEVEMENT



1. Ms. Shruti Miral, Ms. Rakshita Gaddam & Gayatri Chityal (CE5I)- 1st prize in Project idea competition held by Fabtech campus, Sangola. 2. Ms. Shrutika Potdar & Ms. Manisha Manikonda CE5I- 2nd prize in Project idea competition held by Fabtech campus, Sangola. 3. Shruti Jalkote, Asawari Kshirsagar, Diksha Kadam and Sanika Patade (CO5I) won 2nd Prize in Technovation Competition in the event Engineer's Day 2k23 organized by CO dept of SSWCOE. 4. Ms. Akansha Yerpul from EJ5I. won 2nd prize in Agro Challenge organized by SVERI's Collage of Engineering Pandharpur. 5. Ms.Shreya Pukale from EJ3I got Outstanding Performance in Sanjeevani General Knowledge Competitive Exam held at Maharashtra State level.

VISION, MISSION & GOAL OF THE INSTITUTE

• Vision : To rear universally competent women engineers who serve as harbinger to cause speedy development of humanity in general and welfare of our nation in particular.

• Mission: To promote a safe, creative, dynamic community that nurtures and educates Women, imparting state-ofthe-art technical education with the skills necessary to succeed in a fast changing society in the 21st century.

• Goal : ¤ "To impart quality education in the sphere of diploma engineering." ¤ "To induce analytical, creative, critical and independent thinking." ¤ "To create world class women engineering".

EDITORS DESK

Ms. Zipare M.M. Lecturer, Computer Engineering Department



Dear Readers,

It is with great pleasure that we bring out the latest edition of our institute newsletter. This edition includes the various technical, cultural events, TPO & NSS activities, technical article by faculty, faculty and student achievements. We welcome your feedback and suggestions that will help us to improve and enhance our newsletter in future. I am grateful to Hon'ble Shri. Dharmraj Kadadi Sir, President, Shri Siddheshwar Devasthan Trust, Solapur and Shri. Gajanan Dharane, Principal for their valuable guidance. I would like to thank editorial team who contributed to publish this edition successfully.