



## News Letter VOL-23<sup>rd</sup>

### President's Desk

opportunities and platforms to students to display and hone their skills through extra-curricular activities and various value added events.

I am confident that this issue of News Letter will send a positive signal to the faculties, students and the person who are interested in the Technical Education and Technology Based Activities. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by the institute. No doubt that we will definitely lead the institute to the centre of excellence.

All credits go to the Principal, faculties and their team work. I congratulate the Editorial Board of this News Letter who has played a wonderful role in accomplishing the task in time.

### Principal's Desk

confidence and opportunity to grow professionally in every perceivable field and reach for the pinnacle of success in everything they attempt.

The world is incomplete without the technological innovations. Hence, as we know engineers are the builders of the world. Engaging women in developing the Nation and the World is our goal. The institute takes great pride, that it has been contributing benchmark women professionals to the society with Curricular, Extracurricular activities and impeccable technical skills along with absolute human values.

I congratulate the Editorial Board of this News Letter and urge all the students to utilize the time they have to build and develop themselves with resources available around; knowledge is the only tool they will have to build the world to be a better place.

With Best Wishes...



Shri. Dharmraj Kadadi

Shri Siddheshwar Women's Polytechnic, Solapur aspires to be a model of excellence through dynamic programmes, innovative practices and a focus on Women Empowerment. The Faculty of the institute are well qualified, updated and passionately committed, truly interested in the welfare and development of their wards. Apart from academics, the institute offers various



Prof. Gajanan Dharane

Progress is the way of life!! We need to progress to make our lives and the lives of our loved ones happy and peaceful. The Quest to improve our standard of living should consistently exist within us and this quest is not bound by gender. Shri Siddheshwar Women's Polytechnic has been consistently striving to provide women with the necessary knowledge and skills to be part of this quest. It provides Women with the

### EDITION

July 2022 - Oct. 2022

### EDITORIAL BOARD

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### INSIDE

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- Ecofriendly Ganpati Workshop
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- Vidhi Sakshrata Abhiyan
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- Student Achievement
- Vision, Mission And Goal

## EXPERT LECTURES

Expert 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. The format can enable students to interact with professionals in formal and informal settings.



Electrical Department arranged Guest lecture on topic **“Switchgear & Protection”** by Prof. Mujawar I.I., NKOCET, Solapur for third year students. He explained the details of how Switchgear & Protection is used to protect electrical equipments from faulty conditions.



E&TC Department arranged Expert Lecture on topic **“Applied Electronics”** by Prof. B. A. Bachute, SSWCOE, Solapur for second year students. The expert cleared the concept of Oscillator, explained different types of Oscillator and how the waveforms are generated.



Computer Engg and Information Technology department arranged Guest lecture on **“How to Choose Innovative Project Idea”** by Mr. Nikhil Dasari, Java Developer, Synechron Pvt. Ltd., Pune for third year students. He highlighted that students can select their project idea depending on the needs of customers, current problems and choose the solution which is suitable and feasible.



Computer Engineering and Information Technology department arranged Guest lecture on topic **“Oracle Database Management System”** by Mr. Vikas Bindage, Oracle Developer, Capgemini Pvt. Ltd., Pune for second year students. He explained the details of writing database queries and programs using PL/SQL.

## INDUSTRIAL VISIT

Industrial visits provide the students with an opportunity to learn practically through interaction, working methods and employment practices. It gives the students an exposure to current work practices as opposed to theoretical knowledge being taught at their college classrooms.



Civil Engineering department arranged industrial visit to **Vishal Nirmiti Pvt. Ltd, Mohol** for third year students. Students observed various manufacturing steps of railway sleepers and curing processes performed.



Electrical Engineering department arranged Industrial visit to **Regan Power tech, Wind Mill Section, Banali, Sangali** for second students. Students observed how power is generated using wind mill



E&TC department arranged industrial visit to **“Durga E-bike”** for second & third year students. Students observed whole manufacturing process of E-bike.



Information Technology dept. arranged industrial visit **“Dainik Sanchar”** for second year students. Students observed how database is used in the process newspaper printing.

## TECHNICAL WORKSHOP



E&TC dept. organized two days workshop on “**Proteus Software**” conducted by Prof. Amruta Nimbargikar from SSWCOE, Solapur for second year students. Expert explained the history and application of Proteus software, how to use tools, guidelines for circuit building, execution and observe the different outputs.



Electrical Department arranged one day workshop on “**Simulink Software MATLAB**” by Ms. Doke P.P Lecturer in Electronics Dept. of Government Polytechnic, Kolhapur for third year students. Expert explained the actual design process and working of MATLAB and to introduce our students in executing the theoretical knowledge in practice.



Computer Engg. and Information Technology department arranged two days workshop on “**Augmented Reality**” by Mr. Balkrishna Yemul, CTO, Vertex for third year students. Students learned details of augmented reality, difference between AR & VR, working of AR.

## SMART INDIA HACKATHON

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving.

In Smart India Hackathon total 11 groups of Shri Siddheshwar Women’s Polytechnic, Solapur participated and among that one group was shortlisted for Grand Finale from Information Technology Department.



The Grand Finale of Smart India Hackathon 2022 (Software Edition) organized under Ministry of Education, MOE’s Innovation cell and AICTE, New Delhi was held on 25th Aug. to 26th Aug. 2022 (36 Hours Coding Hackathon) at Sahyadri College of Engineering and Management, Mangalore, Karnataka. The team VRAPB (Ministry of Rural Development Problem Statement ID SH1024) include third year Information Technology students Rishika Mamdyal , Bhumika Bet, Vaishnavi Fulpati, Akhila Vaggu, Anjali Shankur under the guidance of mentor Ms. Alange N.S. (HOD IT Dept) and Ms. Jadhav S.G. (Lecturer IT Dept.)

## INSTITUTE INNOVATION CELL

Institute Innovation Cell of Shri Siddheshwar Women's Polytechnic, Solapur received grant in aid of Rs. 12,000/- to conduct Impact Lecture Series sponsored by AICTE, New Delhi and MHRD Innovation cell.



In this series, Session-I expert lectures delivered by Mr. Shubhojeet Ghosh on "Intellectual Property Rights" and Mr. Akshat Joshi on "Entrepreneurship and Startups" from ThinkTrans Foundation, Pune and Session-II expert lectures delivered by Mr. Amol Katare (IT Manager, Katare Informatics, Solapur) on "Project Management in startup IT companies" and Dr. Vikas Patil (I/C Pro Vice- Chancellor Punyashlok Ahilyadevi Holkar Solapur University, Solapur) on "IPR an Indian Scenario"

## NSS ACTIVITIES

National Unity Day is celebrated every year on 31st October to commemorate the birth anniversary of Sardar Vallabhbhai Patel. It is also known as **Rashtriya Ekta Divas**. The reason behind the celebration of this day is to “Make People aware of the ideas of staying together and uplifting society”.



Pledge in spirit of unification of our country which was made possible by the vision and actions of Sardar Vallabhbhai Patel by 450 students and 70 staff members of college.

## TPO ACTIVITIES

Session is organized for all third year students to make aware about different opportunities in design sectors.



Career guidance lecture by Mr. Dharmesh Tank sir- Center head BRDS.

## EDP ACTIVITIES

Interactive session with well known business people Shri. Satish Malu and Sou. Chandrikatai Chavan was organized by EDC for 3rd year students under Swavalambi Bharat Abhiyan.



To boost the culture of creativity, ingenuity and execution at ground level, Student actively participated in startup yatra at PAHSUS.



Student participated at **Startup Yatra** at Punyashlok Ahilyabai Holkar Solapur university solapur

## FREE HEALTH CHECKUP CAMP

SSWP organized Free Health Check up Camp in collaboration with Yashodhara Multispecialty hospital and for the programme Shri Amol Pujari were the chief guest. Health check-ups was designed not only to detect medical issues, but also to identify risk factors and illnesses before they start to cause problems in students. Health check-ups was aim to not only help the student to prevent illnesses and its complications but also to make changes in the lifestyle for long-term healthy life. Weight, Sugar Level, ECG of students and faculties is checked.



SSWP organized free **"Health Check Up Camp"** in collaboration with Yashodhara Multispecialty hospital.

## 14<sup>TH</sup> FOUNDATION DAY



14th Foundation Day was celebrated on 9th July 2023 in presence of Hon'ble Gururaj Malage (Governing Body Member, SSWP), Adv. R.S. Patil (Governing Body Member, SSWP), Dr. Tukaram Chavan (Principal, SSWCOE), Prof. G.R. Dharane (Principal, SSWP) and all HOD's and faculties.

## CULTURAL EVENTS

### 1. AZADI KA AMRIT MOHATSAV

India is celebrating 75 years of independence all faculties and students 'Har Ghar Tiranga' campaign this year. College organized Elocution competition, Self Defense program under guidance of Mr. Shrikant Anutagi, samuhik Rastra Geet Gayan and Flag hoisting by auspicious hands of Hon'ble Malage sir and Adv. R.S. Patil, HODs and all faculty members.



Azadi Ka Amrit Mohatsav celebrated Flag Hoisting on 15th Aug.2022 by Hon'ble Malage sir.

### 2. ECOFRIENDLY GANAPATI WORKSHOP

On the occasion of Ganesh Chaturthi college organized Eco-friendly Ganpati workshop. This was conducted for first and second year students in association of SUMEDH Foundation



Eco-friendly Ganpati workshop conducted for first and second year students in association of SUMEDH Foundation

### 3. INAUGURATION OF MAGAZINE & TEACHER'S DAY

Our 11th Annual Magazine "SIDDH- 2022" was published on the occasion of Teacher's Day on 5th September 2022. For the event the Hon'ble Shri. Dharmraj Kadadi and Hon'ble Dr. Suhas Pujari, Head of Dept., Sangmeshwar College were the chief guest. Governing body member were also present for the event.



Inauguration of 11th Annual Magazine "SIDDH- 2022" & celebration of Teacher's Day in presence of Hon'ble Shri. Dharmraj Kadadi and Hon'ble Dr. Suhas Pujari, Head of Dept., Sangmeshwar College and Governing body members

### 4. ENGINEER'S DAY

This day is celebrated to mark the birth anniversary of Sri M. Visvesvaraya to honor enormous contributions and innovations in the field of engineering. Every department organized Technical events like Technical Paper presentation, quiz, Sudoku, Treasure Hunt, Poster presentation.



Engineers Day Celebration with Chief guest Mr. Mandar Sangolkar- Assistant Engineer in MSEDCL on 15th Sept. 2022.

### 5. FRESHER'S FEST 2K22

Freshers' Fest is a welcome party to newcomers and a gesture of extending the friendly atmosphere and to be motivating factors for juniors. The aim of conducting this day is to make the newcomers feel welcome and to interact with them. Ms. Harshada Navale (EJ), Ms. Mayuri Satalgaokar(CO), Ms. Shirishal Malyal(EE), Ms. Vaishnavi Birajdar (CE), Ms. Komal Pawar (IF) were the nominee. Ms. Vaishnavi Birajdar of Civil Dept. is awarded as Ms. Fresher of 2K22.



"Freshers Fest 2K22" organized for new comers' of 2022 year was organized in presence of Principal Mr. G. R. Dharane, HODs of all dept. and nominee of Freshers Fest

### 6. DANDIYA FEST 2K22

'Nava' means 'Nine' and 'Ratri' means nights in Sanskrit. The nine forms of Shakti/Devi are worshipped with Dandiya Raas a traditional folk dance of Vrindavan. All nine days were celebrated by wearing colorful dress by students and faculty.



"Dandiya Fest 2K22" was celebrated on 1st Oct.2022 for all the Students.

### 7. GANDHI JAYANTI CELEBRATION

October 2 every year is observed as Gandhi Jayanti to mark the birth anniversary of Mahatma Gandhi. Shri Siddheshwar Women's Polytechnic celebrated on 22nd October 2022 in presence of Principal sir all HODs and faculty members



"Gandhi Jayanti" was celebrated on 2nd October 2022 in presence of Principal, all HOD and faculties

### 8. VIDHI SAKSHARTA ABHIYAN

Shri Siddheshwar Women's Polytechnic and District Legal Services Authority collaboratively organized a camp on occasion of national Girl Child Day on 11th October 2022. For the program Mr. Narendra Joshi (Civilian Judge) Dr. Sweta Kallurkar Mr. Shivaji Raut, Adv. Sarojini Tamshetti, Adv. R. S. Patil sir guided the students on various women & child welfare Plans, health tips and Legal rights of women.



"Vidhi Saksharta Abhiyan" was celebrated on occasion of national Girl Child Day on 11th October 2022

# Energy Audit-Way of Energy Conservation



**Pratibha Patil**  
HOD, Electrical Engineering,  
SSWP Solapur

**Abstract:**

Energy audit is an important factor that enables the energy management programmer of any firm for controlling its energy costs. The Scenario of energy storage is compelling the adoption of energy conservation measure that describes the less energy for same level of activity. Energy audit basically controls the energy cost and increase the energy efficiency. Energy audit in business practice gaining continuous attention due to its vital role. This paper presents our motives of identifying the energy efficiency by practicing actual energy audit and finding how energy is being used in the facility. It also presents the ways of identifying the potential issues within building envelop thereby implementing the energy efficient technologies in lowering energy losses prominently with effective presentation of existing building model and its suggestive measures.

Keywords : Energy Scenario, Efficient, Energy Management.

**I. Introduction:**

The need of energy saving is quite evident in today's increasing energy demands of industry, commercial building etc. We need to identify the opportunities of energy auditing in this sector. It involves collection (from in-site measurements) and processing of data and full examination of installed energy systems of building/unit, which will compose through energy. In this paper we are proposing the effective usage of renewable energy in the premises of educational institution Shri Siddheshwar Women's Polytechnic, Solapur, where 30kW solar roof-top project is installed in order to control the expenses of institution over electrical energy. It is clearly shown that the payback period is coming out to be quite less and benefits of renewable energy access is remained for long term. It further involves the conservation of energy by installing energy efficient devices/equipment's floor-wise in institute.

**II. Steps for Energy Conservation using energy audit:**

**Proposed methodology and Procedure:**



Fig. 1. flowchart for proposed methodology for energy audit

fig. 2. flowchart for installing the solar PV cells over the roof of the building

**III. Analysis of existing load:**

The institute is of 3 storied building and the floor wise load calculation before the audit is shown. The classrooms, laboratories, seminar hall, library, director cabin, computer centre etc. everywhere the tubes of around 40 to 60 watt were fitted and load calculations were made accordingly.

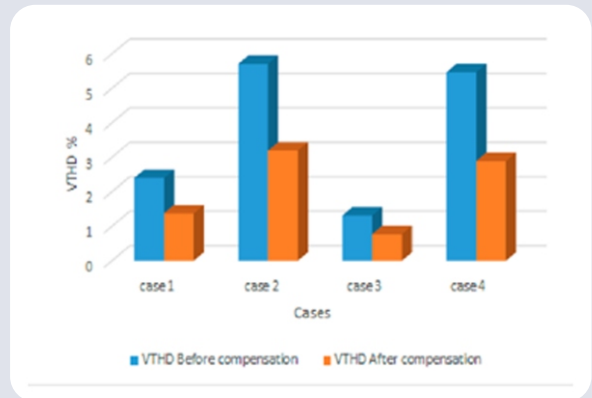
The overall floor-wise calculated load is shown in the following table :

**Table 1: Existing load calculation before audit**

Floor	Major load contribution	Wattage
Ground floor	Machine lab, Measurement lab, Network lab,	22 kW
	Library, Civil engg labs	
First floor	Electronics labs, computer center, director	13 kW
	cabin, admin office	
Second floor	Computer and IT computer labs	18 kW
Third floor	All Classrooms	7 kW
Total	Total	60 kW

Therefore, the total maximum demand of educational building is 60 kW.

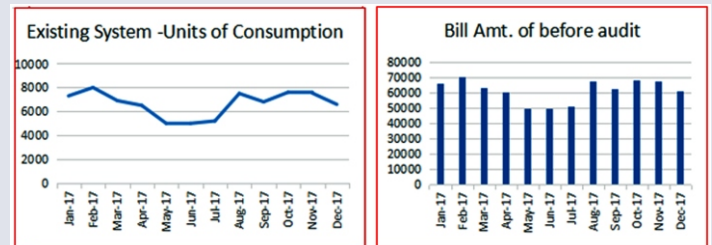
After studying the energy flow the detailed analysis is made and the opportunities of energy conservation is identified. The extra wattage consuming of any equipment is identified using the multi-function meter installed in machine laboratory and power analyzer installed centrally.



**Fig. 3: Harmonic distortion**

This measures the parameters such as True power, power factor, harmonics and efficiency in power inverters, motor drives etc. Power analyzers provides auditors to minimize the energy loss due to distortion, transient wave forms in power electronics[8].

All the 40 wattage tubes is been replaced with 20 W energy efficient LED tubes. In addition to it the old equipments also been obsoleted. The energy loss due the flow of leakage current is also prioritized and firm earthing at 4 different locations is also practiced.



**Fig. 4. Existing energy consumption in units and bill amount**

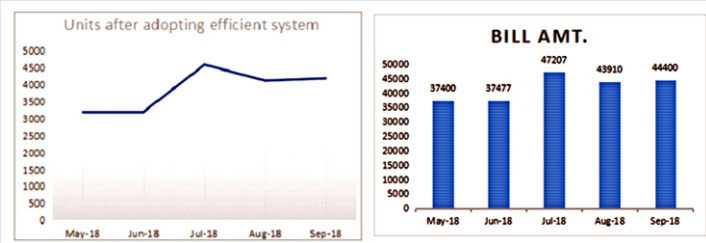
**IV. End results of audit:**

The change in the reduced maximum demand has been encountered majorly due to replacement of energy efficient lighting load going in all corners of the institute. That has also given benefits of intense illumination with reduced power consumption. This is the mainly cause of reduction in energy demands shown in table.

**Table 2: Reduced Maximum Demand after auditing**

Floor	Major load contribution	Change in Wattage
		due to LED tubes
Ground floor	Machine lab, Measurement lab, Network lab, Library, Civil engg labs and corridors	19 kW
First floor	Electronics labs, computer center, director cabin, admin office and corridors	10 kW
Second floor	Computer and IT computer labs, and corridors	14 kW
Third floor	All Classrooms	3 kW
	Total	46 kW

Therefore there is nearly 20% of saving in cost on energy usage after replacing energy efficient devices. The another percentage of saving can also be possible by analyzing the working hours of institute. But that can becomes little complex to do so.



**5. Energy consumption in units and bill amount after audit**

The comparison is also made by referring the fig.4 and fig.5 to identify the extent of energy conservation.

**VII.** Adoption of Renewable energy over the existing system to get additional benefit: The country like India has an outstanding scope for the installation of solar PV systems to extract electrical energy from sun radiation (photons). Keeping this in the view we thought of going for installation of solar panels on roof of the institute. This could be a good thought for long term usage of renewable energy. But only required was large capital investment.

**Selection of Solar PV capacity :** The average monthly energy consumption = 5000 to 5500 units (from energy bill)

1 kW of solar pannel energy generation = 5 units/day and for monthly = 5\*30=150 units

The required solar pv system in kW for institutional building = 5000/150 = 33.33 kW

Therefore a 30kW solar PV system was selected to install on the top of building.

The total capital investment made for 30 kW PV system = Rs. 24 lac (For 20 years)

The avg. Monthly expenditure on energy in existing system = Rs. 50000

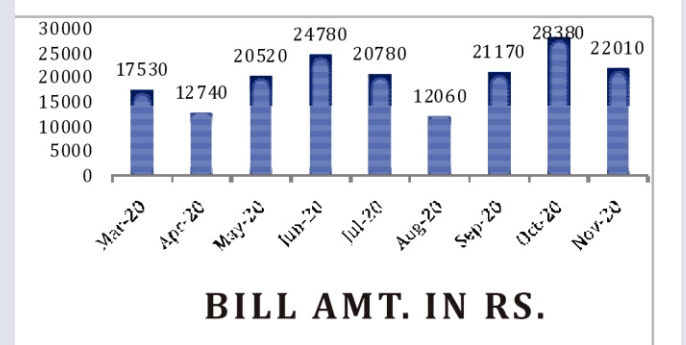
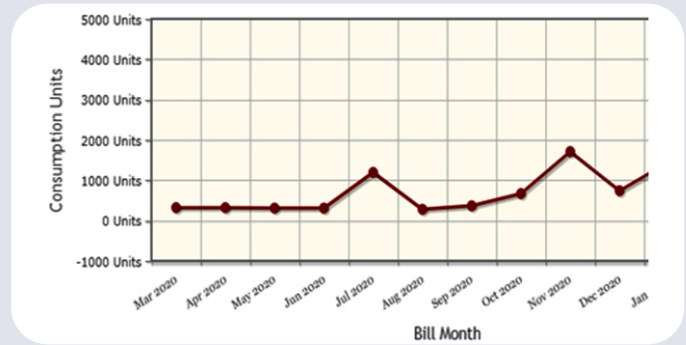
The avg. annual expenditure over energy consumption in the existing system = Rs. 6 lac

Annual Expenditure on Existing system	Capital investment on installing Solar PV system	Payback period
Rs. 6 lac per year	24 lac in year	4 years

In Nov-2018, on-grid 30 kW of solar roof-top project was installed and the import of electrical energy from state utility grid was reduced in large extent. The institute started to meet the energy demands in a day by it its own by generating 140 to 150 units of energy in a day. Due to this the monthly energy bill reduced. After six years of pay-back period the institution will be start to rip the the full benefit and large saving over energy bill.

This has been shown by taking real time monthly energy consumption in units for certain duration to indicate difference.

**Energy consumption and billing history after installation of 30kW solar PV panels (renewable energy)**



**VIII. Conclusion:**

Energy audit is an effective way in identifying and pursuing a comprehensive energy management. This paper helps in energy conservation by energy audit and installation of suitable renewable energy system. This proposed analysis helps to think in many ways of reducing the energy demands by adopting modern tools of energy audit.

The following facts have emerged from above analysis:

- (i) Energy demand reduced by 20%.
- (ii) The cost on energy bill also reduced by installing PV system in addition.
- (iii) The benefit over energy bill ripen for next 14 years after pay-back period just 6 years.

By implementing the recommendation as suggested in the project model will help in reducing the energy consumption. This is continuous process that every institution owing to adopt periodically.

**VIII. References:**

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## FACULTY ACHIEVEMENTS



Ms. Alange N.S.(HOD IT Dept) awarded as KASBA SHIKSHAKRATNA PURASKAR by Kasba Ganpati Pratishthan, Solapur for excellent contribution in Diploma technical education on 1st Sep 2022

1. Mr. Kandale A.K., Mr. Dasari V. S., Ms. Harsure M. S., Ms. Jamadar R. S. completed 2 days FDP certificate on “NBA philosophy” organized by BMP, Solapur
2. Ms. Harsure M. S. completed course of “Time Management” by Infosys Ltd.
3. Ms. Jogdankar A. L. completed NPTEL-AICTE FDP elite certificate in “Brief Introduction to Psychology” and NPTEL Certificate in “Plastic Waste Management” with 86%.
4. Ms. Patil P.B., Mr. Gauda P.B., Ms. Langote G.B., Ms. Birajdar S.K. Electrical dept. has Completed Online FDP On “Impact Lecture Series on Intellectual Property Rights & Start up” organized by Shri Siddheshwar Women’s Polytechnic, Solapur
5. Ms. Langote G.B. has Completed One Week FDP On “Recent Trend in Electrical, Electronics & Telecommunication” organized by FABTECH Technical Campus, College of Engineering & Research, Sangola in Collaboration with DBATU, Lonere
6. Mr. Shivgunde P.P, Mr. Vyas S.N., Ms. Thokade A.R., Ms. Wale P.S. and Ms. Mashalkar S.D., completed 3 days FDP on “Arduino Programming” organized by SPM Polytechnic Kumthe
7. Ms. Thokade A.R., Ms. Wale P.S. and Ms. Mashalkar S.D. completed 1 week on FDP on “Transforming Teaching Learning Process through Modern Pedagogical Techniques” organized by Vidyalankar Polytechnic, Mumbai
8. Mr. Mane N.K., Mr. Banegaon R.P., Ms. Zipare M.M. and Ms. Rampure A.S. from Computer Engineering dept. has completed Online FDP On “Impact Lecture Series on Intellectual Property Rights & Start up” organized by Shri Siddheshwar Women’s Polytechnic, Solapur
9. Ms Alange N.S. has Completed National Level one-week Online FDP On “Deep learning with Python” organized by AISSMS IOIT, Pune.
10. Mr. Hiremath S.S. and Ms. Jadhav S.G. has Completed three days Online FDP On “Python Programming” organized by SPM Polytechnic, Kumathe
11. Ms. Dulange A.A., Ms. Nimbalkar S.C. and Mrs. Talekar S.S. has completed 2 days FDP On “NBA Philosophy” organized by BMIT, Solapur.

## STUDENT ACHIEVEMENTS

1. Ms. Vaishnavi Birajdar student of 1st year civil was awarded the title of Miss. Fresher of 2022-23
2. A group of 8 students from civil 3rd year students got a paid internship under the Govt. initiative Mission Amrit Sarovar as part of celebration of Azadi Ka Amrit Mahotsav.

3. Ms. Sakshi Pukale , Ms. Janhvi Vaidkar, Ms. Anagha Holla and Ms. Snehal Mitragotri from 3rd year civil dept. won the 1st prize in Mind Spark competition.
4. Ms. Prachi Sonavane and Ms. Rushika Mane from 3rd year CO dept. won 1st prize in COMPUTECH 2K22
5. Ms. Rajnandini Waghmode(CO5I) got 1st rank and Vidya Hatture (CO3I) got 2nd rank in CODEWAR 2K22
7. Ms. Vidya Birajdar, Divya Birajdar, Sakshi Gadage & Sakshi Degil of EJ dept. won 2nd Prize in Mind Spark competition
8. Ms. Nilambika Dudhani, Vijayalaxmi Hajare, Shradha Chavan, Samreen Choudhari of EJ dept. won 3rd Prize in Mind Spark competition
9. Ms. Patil Aishwarya(IF3I), Ms. Sonavane Anjali(IF5I), Ms. Tank Diya (IF5I), Ms. Khanapure Sakshi(IF5I) stood 1st in ITECH 2K22 Treasure Hunt event
10. Ms. Chaldade Arpita (IF5I) & Ms. Billa Shubdha (IF5I) stood 1st in ITECH 2K22 Poster Presentation event
11. Ms. Nalla Sanjana (IF3I) stood 1st in ITECH 2K22 Blind C Programming competition.
12. Ms. Genne Gautami (IF5I) , Ms. Sura Divya (IF5I), Ms. Chanmal Sakshi (IF5I), Ms. Yeldi Vaishnavi (IF5I) stood 1st in Quiz competition in ITECH 2K22 organized by IT dept.

## 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-of-the-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”

## Editor's Desk

### Ms. Zipare M.M.

Lecturer in  
Computer Engineering Department



Hello Everyone!

We are pleased to share with you Newsletter Edition (July 2022 - October 2022) Vol- 23 of Shri Siddheshwar Women’s Polytechnic, Solapur. This edition includes the various Technical, Cultural events, TPO & NSS activities, Student & Staff achievements & technical article by faculty. The editorial desk is thankful to all those who contributed to publish this edition successfully.