

WALCHAND COLLEGE OF ENGINEERING, SANGLI ELESA

LESA NO STUDENTS! ASSOCIATION F1 F5 F5

ELECTRONICS ENGINEERING STUDENTS' ASSOCIATION

Email: walchand.elesa@gmail.com Website: www.elesa.in

Report on

ELECTROVERT 2017

...Performance Creed

Under Lead College Scheme, Shivaji University, Kolhapur

State Level Technical Symposium

9th and 10th September 2017

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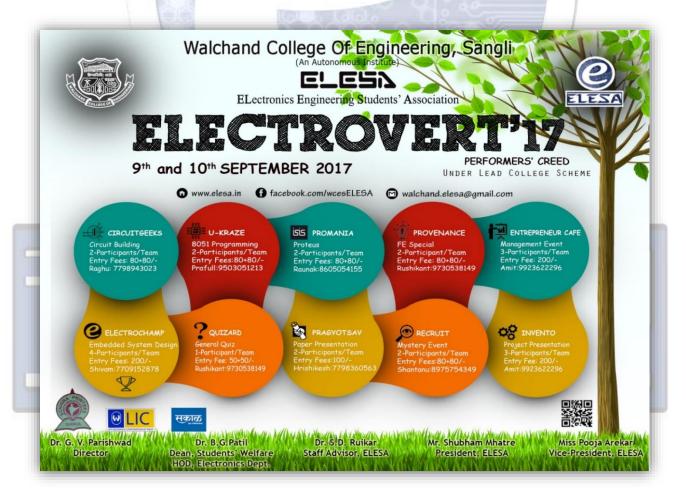
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PROMOTION OF EVENT

As a state level competition ELECTROVERT event was promoted all over the Maharashtra though campaigning and newspaper as a result we got a huge response from the students. Also promoted our event though www.elesa.in website and captive portal of our college Wi-Fi network. News were also published in Sakal newspaper in order to reach all the students of nearby area.

- 1. Posters and Banners Display
- 2. Website
- 3. Captive Portal
- 4. Social Networking Sites (Facebook, Twitter, WhatsApp)
- 5. News in Sakal newspaper



PARTICIPATION

There were total **16 colleges** across 'Shivaji University' in which our organizing committee members did campaigning of event and itself in a 'Walchand College of Engineering, Sangli'. Around **550** teams contributing to more than 1000 participants were participated in **ELECTROVERT 2K17**.

Entries from the following colleges:

| Sr. No. | Name Of the College |
|---------|--|
| 1 | Government College of Engineering, Karad |
| 2 | R.I.T. College, Islampur |
| 3 | K.I.T. College, Kolhapur |
| 4 | Government Polytechnic, Kolhapur |
| 5 | Bharati Vidyapeeth College of Engineering, Kolhapur |
| 6 | D.K.T.E.Society's Engineering Institute College,Ichalkaranji |
| 7 | S.I.T., Ichalkaranji |
| 8 | P.V.P.I.T., Budhgaon |
| 9 | Government Polytechnic, Miraj |
| 10 | Sanjay Ghodawat College of Engineering, Kolhapur |
| 11 | J. J. M. College of Engineering, Jaysingpur |
| 12 | Department of Technology, Kolhapur |
| 13 | Annasaheb Dange College of Engineering & Technology, Ashta |
| 14 | Government Residential Woman Polytechnic, Tasgaon |
| 15 | Vishveshwarya Technical Campus, Miraj |
| 16 | Dr. D. Y. Patil COE, Kolhapur |
| 17 | Adarsh College of Engineering, Ashta |
| 18 | M. D. Jadhav College of Engineering, Bhose |
| 19 | Daulatrao Aher College of Engineering, Karad |
| 20 | Yashwantrao Chavan Polytechnic, Ichalkaranji |
| 21 | Latthe Ploytechnic, Sangli |
| 22 | Walchand College of Engineering, Sangli |
| 23 | Tatyasaheb Kore Institute, Warnanagar |

INAUGURATION

ELESA - *Electronics Engineering Students' Association* is a well-known technical association of Walchand College of Engineering, Sangli which moulds the amateur engineer through teaching, activities and transform them to be professional in their career. It has successfully produced fruitful results since long by contributing for the technical as well as personality development of the students. Support of the department and college to our association is an appreciative work.

ELECTROVERT had inauguration on 9th September, 2017 in Tilak Hall at 9:30am. Our Dignitaries Dr. G. V. Parishwad, Director of WCE, Dr. B. G. Patil, HOD of Electronics Department and Dean Students' Welfare, Dr. S. D. Ruikar, Staff Advisor of ELESA and Prof. V. B. Dharmadhikari were present on the day. All the honourable dignitaries, President Mr. Shubham Mhatre and Vice President Miss. Pooja Arekar light up lamps. It then followed by the inspiring words of Dr. G. V. Parishwaad, Dr. B. G. Patil, Dr. S. D. Ruikar, Mr. Shubham Mhatre and Miss Pooja Arekar. It then followed by felicitation of sponsors of the event. 'Sakal newspaper' was our media partner, 'Sonhira printers' and 'LIC' were our other sponsors. All board members of associations and participated students were present for the inaugural ceremony.



EVENT STRUCTURE

Being a two day event, there were 10 different sub events among them 5 on either day. To facilitate good co-ordination and efficient management, competitions were categorized into following committees:

- 1. **CircuitGeeks** Circuit building competition
- 2. μ-Craze 8051 & 8085 programming competition
- 3. **Promania** Circuit design contest in Proteus
- 4. **Auxesis** F.E. special event
- 5. **Entrepreneur Cafe** Management Event
- 6. **E-CHAMP** Embedded System Designing Competition
- 7. **Quizard** Quiz Competition
- 8. **Pragyotsav** Paper Presentation Competition
- 9. **Recruit**-Mystery solving competition
- 10. **Invento** Project presentation competition
- 11. **Funnably** On the spot event



CIRCUITGEEKS

It was one day circuit designing contest and was conducted on the first day i.e. on 9th September. It was based on basic electronic knowledge. Total number of participants for Circuit-Geeks were 156.All this participants were divided into two groups i.e. Novice and Expert. [Novice-1st and 2nd year degree and diploma, Expert-3rd year diploma and 3rd and 4th year degree]. Each team consists two participants. Detail information about this event is as follow:

Round 1-Technical aptitude Test on 9th September (9.00am to 9:35am) It was objective test based on basic electronics knowledge having 35 minute time limit.

It was totally based on the following points.

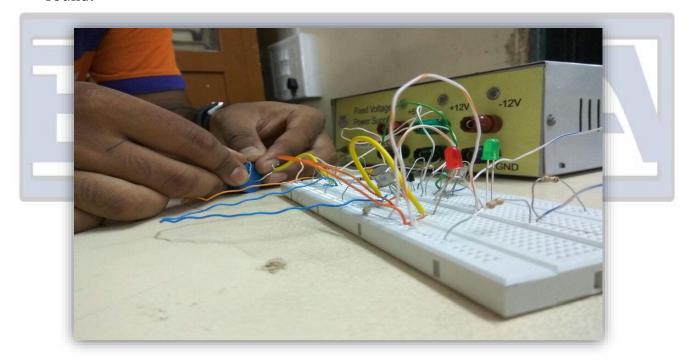
- Semiconductor material
- Operational amplifier
- Power electronics

Round 2-Subjective type questions (12:00 to 12:35pm)

For this round 60 teams were selected, from which 35 teams were from expert group and 25 were from novice group.

The problems in this round was based on fault finding and circuit designing.

Round 3- Actual hardware implementation of circuit (3:30pm to 6pm) This was the final round of this contest. Total 12 teams are selected for this round.



Judge: Prof. S. K. Parchandekar.

Venue: Comm. Lab and Basic electronics lab of Electronics department.

Expert Group:

Winner: Vijay Gole and Vikas Ghubade

Runner Up: Sumit satpute and Chetan Kamble

Novice Group-

Winner: Vinod Patil and Ozas Hasabnis

Runner up: Shreyas Wakankar and Gourav vaidya

Organizing Committee

| Board | Name |
|------------|------------------------|
| D.T. (000) | 1.Sunita Patil |
| B Tech | 2. Raghunandan Kangule |
| 9,000 | 1.Sachin Jadhav |
| TY Board | 2.Iftsham Attar |
| | 3.Komal Chandak |
| SY Board | 1.Pallavi Shirolkar |
| | 2.Dhanraj Bhosale |
| / 60 | 3.Shubhashri Kumbhar |



PROMANIA

It was a one day proteus simulation contest and was conducted on 9th September i.e. on the first day. It was totally based on implementation of digital circuits in proteus and their simulation. Total 29 entries were received for this event. The detailed information about the whole event is as follows:

Round 1: Aptitude test on 9th September (11:00 am to 11:30 am)

It was objective test containing 30 questions having a time limit of half hour. It was totally based on Digital Electronics and basics of proteus.



Round 2: Proteus Simulation (2:00 pm to 2:50 pm)

Total 15 teams were shortlisted for the second round. There were 3 questions based on the digital circuits having time duration of 50 minutes. Solving the questions for expected output, teams implemented that circuit on proteus software and simulated it.

Round 3: Hardware implementation (5:30 pm to 6:30 pm)

After 2nd round, 4 teams were shortlisted for the final round. They were provided with three questions out of which 2 questions were for simulation on proteus as well as for doing hardware implementation and 1 question was for proteus simulation only.

Judge: Mr. Suraj Patil

Venue: EDA lab of Electronics Department

Winner: Dhanashri Patil & Pratibha Powar

Runner Up: Swapnil Deshmukh & Tejashree Ghogale

Organizing Committee:

| Board | Name |
|--|-----------------------|
| B. Tech | 1. Raunak Suryawanshi |
| Aldono | 2. Arati Balekundri |
| TY Board | 1.Sayali Dabhade |
| (310)619 | 2.Vrushali Shelar |
| A CONTRACTOR AND A CONT | 3. Sandesh Manwar |
| SY Board | 1. Alhad Manure |



μ-KRAZE

It was one day programming contest and was conducted on the first day of the ELECROVERT i.e. on 9th September. It was based on 8051 microcontroller programming contest. The contest was really the knowledge checking about 8051 microcontroller and embedded programming style. Total number of entries received for the event were **60.** Detail information about this event is as follow:

Round 1- Aptitude Test on 9th September (10:30am to 11:00am)

It was objective test based on 8051 microcontroller and some embedded system problem having forty minutes time limit and containing the 30 questions.

It was totally based on the following points.

- Architecture
- Assembly language instructions
- Rapid Programming

Round 2- Simple and Rapid Programming (1:30pm to 2:15pm)

There were total 15 Questions and the time duration of 1 hour. Total 25 teams were shortlisted for this round. Students had choice to solve any questions in the given time in C language or assembly language. Total paper had 60 marks.

Round 3-Problem Statement Solving (4:30pm to 5:30pm)

Final round was based on the complex programing statement having 1 hour time limit and Prof. V. R. Gaikwad sir did judging for this round. Problem based on agriculture theme and it was a good application problem.



Judge: Prof. V. R. Gaikwad

Venue: ESM Lab of Electronics Department

Winner: Pragati Jagadale and Mrunali Chavan

Runner up: Pratiksha Ashtekar and Megha Ghantade

Organizing Committee:

| BOARD | Name |
|-------------|--------------------|
| B.Tech | 1. Prafull Mahajan |
| | 2. Shivam Avare |
| T. Y. Board | 1. Pritesh Pawar |
| | 2. Kajal Mundhe |
| (= 55 3 3 Y | 3. Priya Bhosale |
| | 4. Snehal Patil |



ENTREPRENEUR CAFE

Entrepreneur Café was a one day management event which was conducted on 1st day of Electrovert i.e. 9th September. 25 teams were marking their presence with 3 participants max in each team.

The event began with the organizing committee giving some basic information related share market to the participants present there. Terms related to share market were explained and presentations were given.

Round 1:

This round began with the teams being given their team names which were basis of companies existing in real world and some amount of virtual money which they had to invest in shares on the basis of news bulletin provided to them and each month's data too.

Round 2:

There was no shortlisting. The capital that teams raised in first round was used in 2nd round for auction of different companies based on their ratings and base prices.



Venue: Classroom No. 19

Winner: Sushant Bhat, Subhash Chandra and Sumit Singh

Runner-up: Sumit Shinde and Harshad Ugale

Organizing Committee:

| Board | Name |
|----------|----------------------|
| B. Tech | 1. Amit Patil |
| | 2. Shantanu Vipradas |
| | 3. Hrishikesh Nikam |
| TY Board | 1. Atul Zine |
| | 2. Sneha Shete |
| (0) | 3. Ritu Patil |
| SY Board | 1. Ajit Attarde |
| b) lely | 2. Amit Kasare |



PROVENANCE

Being a mega event, *ELECTROVERT*, has a competition specially designed for first year students. The students from first year are new to engineering world and don't have enough knowledge to compete in technical events. Also competing with senior students is another fear in mind. To take out their hidden potential and to increase their confidence level, a FE SPECIAL event was designed. The event was named as '**Provenance**' which means to *prove yourself* in different situations with different skills. The team could be of maximum two participants. The students from different colleges were participated with huge enthusiasm as the event was specially designed for them.



Round 1:

The **first round** was an **aptitude test**. It was based on the topics like logical reasoning, general knowledge, basic science, puzzle, verbal questions etc. There were total 40 questions for which time limit was 45 minutes and negative marking scheme was not applied. The aim of this round was to check the *numerical and intellectual abilities* of participants. Total 40 teams were able to crack the aptitude test and progressed to next round.

Round 2:

This round was called 'Advertising Mania'. The participants were supposed to draw a cheat and make an advertisement based on the topic found in the cheat. The general topics such as soap, toothbrush, and perfume were given on the

cheats. The participants were able to assume their own product with own specialities as the aim of the round was to check *creativity, imagination and out of box thinking*. Time limit for advertisement was 5 minutes. The highest scored 10 teams were shortlisted for next round.

Round 3:

The final round was of bidding. This round was to check the *budget* management skills and market analysis abilities. Also the intention was to introduce first year students with business management events such as bidding. The event was based on making a fruit custard with minimum of 4 fruits and maximum taste. To make it the participants were bidding for different fruits. The demand formula for any fruit custard was taught to them. The balance of 2000 as virtual money was given to each team. The formula for demand was the major key to bid. Every team thanked to organising committee for such entertaining event. Based on demand value in third round the winner and runner up were selected.

Judge: Miss Bhagyashree Shastri and Mr. Amol Gaykhe.

Venue: Classroom No: 8, 9 and 10.

Winner: Anushka Kadam

Runner Up: Pranali Mane and Nivedita Shinde

Organizing Committee:

| Board | Name |
|----------|-----------------------|
| B. Tech | 1. Pooja Arekar |
| | 2. Rushikant Birajdar |
| TY Board | 1. Shrihari Waskar |
| | 2. Suraj Anarase |
| | 3. Vaibhav Gavale |
| SY Board | 1. Vishal Narkhede |
| | 2. Tanvi Magdum |

ELECTRO-CHAMP

It was one day contest and it was held on the second day of Electrovert i.e. on 10th September 2017.It was based on embedded system design and microcontroller. The entries received for this event were four .The details of event are given below:

Details:

- The theme of Electrovert 2017 was based on agriculture .so the problem statement provided in event was based on current agriculture issues.
- There were no rounds in this event .It was whole day event, the event was started on 10.00am and ended with 5.30 pm.
- For this each team was provided with problem statement. Based on the problem statement they were asked to develop the detailed block diagram of given system .also they were asked to draw interfacing diagram of other systems with microcontroller kit with provided data sheet and specifications of each hardware component.
- After developing the block diagram each had to decide which hardware components were required by their developed system .once they decided system block diagram and hardware component requirement they were asked to write corresponding "c" program for the intended system simulate the developed system or any kind of circuits on simulating tools like proteus.
- Once they finished with detailed block diagram, interfacing, coding and simulation they had to build entire system on actual hardware.



Judge: Mr. V. R. Gaikwad

Venue: ESM lab of Electronics Department

Winner:

1. Vijay Gole

2. Vikas Ghubade

3. Dhanashree Patil

4. Pratibha Powar

Organizing Committee

| Board | Name |
|----------|--|
| B. Tech | Sunita Patil Shivam Aware Raghunandan Kangule |
| TY Board | Sachin Jadhav Iftasham Attar Komal Chandak Snehal Patil |



QUIZARD

It was one day general quiz contest and was conducted on the second day i.e. on 10th September. It was based on general knowledge contest. Total number of entries for Quizard were approximately 130. Detail information about this event is as follow:

Round 1-Aptitude Test on 10th September (10:30am to 11:15am)

It was objective test based on general knowledge having 45 minute time limit. It was totally based on the following points.

- General knowledge
- Logical reasoning
- Mathematical

Round 2-Domainwise Aptitude (2:00pm to 2:30pm)

There were five domains i.e. History and Geography, Science, Sports, Movies, Politics. Each team have to give three choices from these five domain. Total 80 teams were shortlisted for this round.

Round 3- KBC round (4:30pm to 5:30pm)

Final round was KBC type contest having 1 hour time limit and four lifeline. There was twenty questions in this round.



Venue: Quadrangle, room no-7

Winner- Saurabh Gaurkar

Runner up- Prathmesh Sanap

Organizing Committee

| Board | Name |
|-----------------------|-----------------------|
| B. Tech | 1. Rushikant Birajdar |
| / | 2. Prafull Mahajan |
| TY Board | 1. Sneha Shete |
| | 2. Priya Bhosle |
| / 600 | 3. Shrihari Waskar |
| SY Board | 1. Pallavi shirolkar |
| / (- 5 5 3 | 2. Dhanraj Bhosale |



INVENTO

It was only one day event project presentation contest and was conducted on the second day i.e. on 10th September. Participants have to only present their projects with their project hardware and have to answer the questions asked at the time of judging. Total number of entries received for project presentation were 5. Dr. V. B. Dharmadhikari were the judge of the event.



Judge: Dr. V. B. Dharmadhikari.

Venue: Communication Lab of Electronics Department

Winner: Rohan Koli

Prathamesh Salunkhe

Sushant Patil

Organizing Committee:

| Board | Name |
|----------|-----------------------|
| B. Tech | 1. Arati Balekundri |
| | 2. Amit Patil |
| TY Board | 1. Sandesh Manwar |
| | 2. Kajal Mundhe |
| SY Board | 1. Pallavi Shirolkar |
| | 2. Shubhashri Kumbhar |

PRAGYOTSAV

It was a one day presentation event which was conducted on 10th September i.e. on day 2. Each team was given maximum of 8 minutes to present their ideas. Around 70 teams were participated in this event.

The topics for presentation was as follows:

- Modernization and automation in agriculture industry
- Advanced wireless communication
- Blue Whale app-A death trap
- LIFI(light fidelity) technology
- Advanced construction techniques(for civil)

Top two teams from each room were again requested to present their presentation in front of all three judges. On the basis of evaluation done by of all three judges the winner and runner up was selected.

Judge: Miss S. U. Patil, Amol Gayakhe and Bhagyashri Shastri.

Venue: Classroom no. 1, 3, 5 and Seminar room.

Winner: Suyash Kandi and Siddique Mursal

Runner: Rashmi Kulkarni and Pranjali Patil

Organizing Committee:

| Board | Name |
|----------|--------------------|
| B. Tech | 1.Hrishikesh Nikam |
| | 2.Pooja Arekar |
| TY Board | 1.Vaibhav Gawale |
| SY Board | 1.Vishal Narkhede |
| | 2.Amit Kasare |

THE RECRUIT

It was a one day mystery event which was conducted on 10th September i.e. on day 2. In this event the recruitment process for a spy was done by an organization named SHIELD. This was all about solving the mystery, investigating the murder. Total entries for this event was 140. It was conducted in 3 rounds.

Round 1 – Aptitude Test on 10th September (9:15 to 10:45 am)

Set of 5 question papers containing questions from 5 different section. Evaluation of each candidate was done based on correct number of answers in each section within the titles enlisted below:

- Computer Forensics
- Detective
- Case Officer
- Counter Intelligence
- Analyst

Round 2 - After 1st round total 60 teams were shortlisted. (2:00 to 3:00 pm)

They had been provided with a story. By analysing it, they were supposed to find suspects and ask for their FBI interrogation as well as to give proper conclusions. Based on their report, 10 teams were shortlisted for third round.

Round 3 – Case solving (4:30 to 5:30)

In this round there was code solving i.e. candidates were provided with successive questions. The answer of first question was password for unlocking the next question and so on. Then participants were taken to the actual crime scene for the investigation purpose. Candidate had studied the scene and thought as a detective to reach a certain analysis. They were provided with the autopsy and the forensics reports the weird things demanded by them that were present on crime scene. Using the reports participants concluded their story and obtained results.



Judge: Mr. Shantanu Vipradas & Mr. Raunak Suryawanshi

Venue: Classroom no. 9, 10, 11, 12 and 13

Winner: Suraj Rajput and Nitin Jethava

Organizing Committee:

| Board | Name |
|----------|-----------------------|
| B. Tech | 1. Shantanu Vipradas |
| B. Teen | 2. Raunak Suryawanshi |
| TY Board | 1. Atul Zine |
| = | 2. Sayali Dabhade |
| | 3. Vrushali Shelar |
| | 4. Pritesh Pawar |
| | 5. Suraj Anarase |
| SY Board | 1. Ajit Attarde |
| | 2. Tanvi Magdum |
| | |

PRIZE DISTRIBUTION

The prize distribution ceremony was held on 10th September at 5:00 pm in Tilak hall. Mr. Shekhar Joshi, Assistant editor in Sakal newspaper was invited as the chief guest of program. Dr S. D. Ruikar, Staff adviser ELESA, Prof. V. B. Dharmadhikari were present for the program. The program started with inspiring speech of Mr. Shekhar Joshi. Prizes including certificates trophy and prize money were given to winners. Judges of competition were also presented with trophies. The champion's trophy was awarded to J. J. Magdum College of Engineering Jaysingpur. The HOD of Electronics of college received the trophy. The program was further carried by speech of Dr. S. D. Ruikar. President Mr. Shubham Mhatre concluded the whole 2 day Mega event in his speech. The group photo all the winners with guest, judges, president and vice president was taken and thus program was declared as over. The glory of achievements and accomplishment on the faces of both participants and organizers was itself reflecting the success of 2 days Technical Symposium i.e. 'ELECTROVERT 2k17'.



WINNER'S



ORGANIZING BOARD



ELESA 2017-18

| Sr. No | Class | Name | Post |
|--------|-------------|------------------------------|--|
| 1 | Final Year | Shubham Mhatre | President |
| 2 | | Pooja Arekar | Vice-President |
| 3 | | Swaroopa Ingale | Chief Club Service Director |
| 4 | | Sunita Patil | Chief Technical Director |
| 5 | | Raghunandan Kangule | |
| 6 | | Shantanu Vipradas | Chief Aptitude developer |
| 7 | | Arati Balekundri | |
| 8 | | Amit Patil | Chief Event Director |
| 9 | | Raunak Suryawanshi | |
| 10 | | Pratik Thepale | Editor |
| 11 | | Prafull Mahajan | Chief Web developer |
| 12 | | Rushikant Birajdar | |
| 13 | | Revati Shiudkar | Digital Publicity head |
| 14 | | Shivam Aware | |
| 15 | | Hrishikesh Nikam | Chief Treasurer |
| 16 | | Mahadev Mishal | secretary |
| 17 | Third Year | Atul Zine | Joint Club Service Director |
| 18 | | Vrushali Shelke | |
| 19 | | Sneha Shete | |
| 20 | | Sachin Jadhay | Joint Technical Director |
| 21 | | Komal Chandak | |
| 22 | | Kajal Mundhe | |
| 23 | | Shrihari waskar | Joint Aptitude Developer |
| 24 | | Amol Shelke | |
| 25 | | Vrushali Shelar | |
| 26 | | Pritesh Pawar | |
| 27 | | Ritu Patil | Joint Event Developer |
| 28 | | | |
| 29 | | Sayali Dabhade | Joint Editor |
| 30 | | Balaji Koshti Anand Narawade | |
| | | | |
| 31 | _ | Nikita Nikhare | |
| 32 | | Iftasham Attar | Digital Publicity head |
| 33 | | Priya Bhosale | |
| 34 | | Snehal Patil | Loint Wah days 1 |
| 35 | | Suraj Anarase | Joint Web developer |
| 36 | | Sandesh Manwar | Joint Treasurer |
| 37 | | Vaibhav Gavale | |
| 38 | | Ajit Attarde | Joint Secretary |
| 39 | Second Year | Vishal Narkhede | Assistant Club Service Director |
| 40 | | Dhanraj Bhosale | Assistant Technical Director |
| 41 | | Alhad Manure | |
| 42 | | Tanvi Magdum | Assistant Aptitude Developer |
| 43 | | Shubhashri Kumbhar | |
| 45 | | Amit Kasare | Assistant Editor |
| 47 | | Bhagyashree Mane | Digital Publicity headAssistant treasurer |
| 48 | | Pallavi Shirolkar | |
| 49 | | Dipak Fadtare | |
| 50 | | Ashwini Bhandare | |