

Department of Electronics
Report for Akansha: 2018-2019

1. Curricular and cocurricular Activities:

A. Two Day Workshop on “Develop Practical Approach on Use of Solar Energy” sanctioned by Board of Students’ Development, Savitribai Phule Pune University, Pune was organized by the department on 14th and 15th January 2019. Thirty six students from four different colleges participated in the event. Nineteen were male and seventeen were female participants Mr. Vipul Dhongade, Research Associate, Department of Electronics, Savitribai Phule Pune University. Mr. Deepak Kumbhar, Asst. Prof. from the department worked as a resource for the training and awareness on the subject. Mrs. Vaishali Salunke, Asst. Prof. worked as coordinator of the workshop.

B. Department has organized an Intercollegiate Project and Poster Competition: Innovations and Technology for Her Health, Comfort and Digital Literacy held on 2nd March 2019 in association with the Sharada Shakti, National Organization working for Women Empowerment. Twenty students from Science, Engineering, Pharmacy, Ayurveda participated in the event. Eminent women scientist Dr. Sangita Kale, DIAT, Pune and Poonam Chandra from NCRA, Pune delivered lectures on Nanotechnology, Astrophysics and Space Science respectively.

C. Guest Lecture :

- Mr. Vishal Sharma, Asst Manager, Jetking, Pune delivered lecture on “Scope of Networking ” on 7th December 2018. Sixty Four students of S.Y.B.Sc. Comp Sc. attended the lecture
 - **Mr. Vishwanath Naniwadekar, An industry Expert** delivered lecture on “Nurturing the Logical Ability” on 11th January 2019. 115 students of first year attended the guest lecture.
 - Mr. Somnath Wankhede delivered lecture on “Study of 8051 Microcontroller in regional Language ” on 8th February 2019. 114 students of second year attended the guest lecture.
- Purpose behind organization of these lectures was to improve study skills.

D. Industrial Visit:

- **Sixteen students** from F.Y.B.Sc. General visited to NS TECHNICAL Services, Manufacturer of Solar Power generating Systems and LED lighting, Sine Wave Inverter on 2nd December 2019.
- **Thirty seven** students from B.Sc. General visited to Baramati Agro Tourism, Cotton king textile company & Nandan Dairy during excursion tour organized on under STAR STATUS scheme of DBT, Govt. of India on 14, October, 2018.

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2. Extracurricular Activities:

- **Parent Induction Program** was arranged for Parents of F.Y.B.Sc. Comp. Sc. Div. A and S.Y.B.Sc. Comp Sc. Div B on 11th Aug 2018. About **229 parents** attended the program and show keen interest in knowing the College organization and different activities run by the college for the overall development of their ward. College Authorities addressed parents about the Society of the college, overall college functioning, academic activities, examination pattern and student centric extracurricular activities like Interaction, Anubhuti, sports, N.S.S., N.C.C., various scholarships was given to the parents. They were made aware of active counseling cell, anti-raging cell. We emphasized on the importance of the regular attendance of the students. Teacher incharge Mrs. Mrinalini Bhadane and Mrs. Vaishali Salunke organized the program.
- **Quiz** competition on fundamental knowledge in Electronics was organized in **Snake and Ladder game** form on 4th January 2019 by S.Y. B.Sc. Students for F.Y. B.Sc. students. Mrs. Pradnya Pathakji guided the students for the organization of the event. Twenty two students participated in this game.
- **Assemble It** was the competition organized by the department on 24th January 2019 as part of Interaction Intercollegiate activity organized by department of Computer Sc. **Twenty Eight students** including **sixteen students from other four colleges** participated in the event. Mrs. Mrinalini Bhadane worked as a coordinator for the activity.
- **Electronics Excellence Examination (EEE):** Department has conducted this examination in association with Society for Promotion of Excellence in Electronics Discipline (SPEED), an association run by Department of Electronics ,SPPU,Pune. Fifty Four students including 38 from first and 16 from second year participated.
- **Project, Poster and Model presentation** was organized at department on 14/1/19, as part of Science Exhibition activity "ANUBHUTI" of Science Association of the college. Ten Students of B.Sc. Electronics and Computer Sc. participated in the event. Shubhangi Taur, Sailaja Sutar and Lalit Sandbhor and from the department **bagged 2nd prize for project and poster, Third prize for Model competition** respectively.

3. Extension Activity:

- a. **Mrs. Mrinalini Bhadane** : Worked as a resource for Guest Lecture on "Computer Hardware and Peripherals" organized by D.Y. Patil College of Arts, Science and Commerce, Pimpri on 18th February 2019.
- b. **Dr. Varsha Bapat**: Worked as a resource for Guest Lecture on " IOT applications" organized by H.V. Desai college Pune on 21st February 2019
- c. **Mr. Deepak Kumbhar** : Worked as a resource for

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- Two day State level workshop on “PYTHON programming ” organized by Kannada Sangh’s ,Kaveri College of Arts, Science and Commerce, Pune on 29th and 30th January 2019.
- Two day District level workshop on “Develop Practical Approach on Use of Solar Energy” sanctioned by Board of Students’ Development, SPPU, Pune and organized by Department of Electronics of the college.
- Two day training on “Soldering and Desoldering techniques” organized by Department of Physics of the college under STAR STATUS scheme of DBT ,Govt. of India.

4. Staff achievements:

A. Paper Publication:

1. Mrs. Mrinalini Bhadane:

- A paper on “Numerical Issues in design of Passive Micro minors and its performance analysis using CFD” in **an international Journal SRPAS VOL;7,ISSUE1, PG 10-17.**
- A paper on “ Unsteady flow simulations for micro channel design and it’s fabrication for nanoparticle synthesis” by world academy of Science ,Engineering and technology in **an international Journal of Chemical and Material Engineering VOL:13**

2. Mr.Kumbhar D.S:

- A **paper** on “ IOT Based Home Security System Using RASPBERRY PI - 3” published in **an international journal on Research and analytical reviews (IJRAR) : E-ISSN No. 2348-1269 P-ISSN: 2349-5138**

3. Dr. Saroj Hole:

- A **paper on “ Analytical Study of benefits of walking on health: the best diet for health”** published in GCPS conference 2018, conducted by university college of physical education and sports Science Acharya Nagarjun University

B. Poster presentation:

- Mrs. Pradhnya Pathakji presented **poster** “Effect of reflection and absorption coefficient of materials used in diffusors in designing application based illumination system” in **international conference on ‘Sustainable Materials for advanced research in technology’** organized by B.G. Gholap College ,Pune on 5 ,6 February , 2019.
- Mr. Kumbhar Deepak **presented poster** “Comparative analysis of temperature sensors and selection of temperature sensor for concrete

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Pune-16.



temperature monitoring to study concrete maturity in civil structure” in **international conference** on ‘Sustainable Materials for advanced research in technology’ organized by B.G. Gholap College ,Pune on 5 ,6 February , 2019.

C. Training Program :

Mrs. Vaishali Salunke, Mrs.Varsha Bapat, Mrs. Pradnya Pathakji and Mr. Deepak Kumbhar from the Department attended Faculty Development Program on Patent – An Important area to know organized by Department of Biotechnology, Modern College ,Ganeshkhind on 29th January 2019.

D. Other Achievements

- Dr. Varsha Bapat is nominated and appointed as a member of Board of Studies in Electronic Sc. SPPU, Pune
- Mr. Kumbhar Deepak: Designed , Developed and Implemented automated RFID Attendance System for recording teaching activity of the college.

5. Students’ Achievement:

Following students secured prizes in an Intercollegiate Project and Poster Competition: Innovations and Technology for Her held on 2nd March 2019 organized by the college in association with the Sharada Shakti, National Organization working for Women Empowerment.

- Shubhangi Taur won second prize for her project Smart Home in digital literacy section.
- Sohail Magdum, Shubhankar Pawar and Akash Patil won 1st prize for project Child Security in Comfort section of the competition.
- **Industrial Training:** Vaishnavi Shedge a student of F.Y.B.Sc.Comp.Sc.is selected for training on automotive systems in cars during 15th April to 14th June 2019 in Mercedes-Benz Company , Pune-India.



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