

Department of Electronics
Report for Akansha: 2020-21

1. Curricular and cocurricular Activities:

A. This is the third consecutive year that a 30 hours **Value added course on "Modeling and Simulation using MATLAB"** was conducted for F.Y.B.Sc(Computer Science) students. The course was conducted online during 12th January 2021 to 21st February 2021. Total 26 students successfully completed the course. 15 male and 11 female candidates actively participated. The course was conceptualized, designed and executed by Dr. Mrinalini Bhadane.

B. DBT STAR Guest Lecture series titled "**Emerging Trends in Embedded Systems and Internet of Things**" was conducted on 27th, 28th January 2021. Resources having extensive research and development experience in their fields disseminated knowledge on various topics aligned with the title. Dr Mrinalini Bhadane worked as a coordinator for this lecture series. Topics covered and the resources are listed below:

- 1. Internet of things and Biometrics:** Dr. Medha Misar, B.R.Gholap College, Sangavi
 - 2. Internet Protocols:** Mrs. Madhuri Deshpande, S.P.College, Pune
 - 3. Embedded System Design:** Mr. Sandeep Agashe, Sandeep Agencies and consultancy for government and private industry project development.
- Total 140 students have attended the series of lectures.

C. Industrial Visit/ Training/Study Tour:

- 1. Mr. Omkar Dehankar** student of S.Y Comp. has completed **4 months internship** from "Think Bigger Analytics LLP" as a data science intern.

D. E-Content/ICT based Development activities:

- Mrs. Vaishali Salunke uploaded **six videos on different topics of "8051 Microcontroller"** on You Tube channel.
- **Dr.Saroj Hole** uploaded **Sixty videos on different topics of FYBSC**

2.Extracurricular Activities:

A. Department has organized a one **day session of student induction program** on 19th September 2020, organized for F.Y.B.Sc. Comp.Sc. students. Mrs. Vaishali Salunke presented and made the students aware about curriculum and assessment, co curricular, extra curricular and extension activities run through the department. Dr. Mrinalini Bhadane has taken a session on "Power of Concentration". Total 104 students attended the session.

B. Parent Teacher meet was organized on 23rd January, 2021. Mentor teacher for the assigned group of 50 students from S.Y.B.Sc. Comp. Sc, Mrs. Pradhnya Pathakji guided the meeting. 11 parents with 38 mentee attended the meeting.



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3. Extension Activity:

- a. Dr. Mrinalini Bhadane conducted Faculty Training Program for the teachers of Mathematics Department on ' **Mathematical Modeling in MATLAB**' from 22 nd April'21 to 17 th May'21.
- b. Mrs. Vaishali Salunke and Mrs. Pradnya Pathakji worked as judge for Online Video and Quiz competition organized under intercollegiate event "Interaction " by the Department of Computer Sc.

4. Staff achievements:

A. Paper Publication:

1. Mrs.Pradnya B.Pathakji published a paper in American Institute of Physics (AIP) Conference Proceedings 2335, 090001 (2021) titled "Effect of light illumination factor on brain activity as a measure of event related potential using EEGLab"

B. Other Achievements

- a. Dr. Mrinalini Bhadane was an invited member of board of Studies in S.P.Pune University for designing the syllabus of B.Sc. (Cyber and Digital Science). She was involved in the designing of the course on 'Fundamentals of Digital Communication Systems.
- b. **Mrs. Vaishali Salunke and Mrs. Pradnya Pathakji has successfully completed Certificate course in Research Methodology and Publication Ethics with A+ grade** conducted by the Department of Electronics , Abasaheb Garware College, Karvenagar ,Pune.
- c. Mrs.Pradnya Pathakji has participated in 5 Days On line FDP from 30 May 20 to 3 June 2020 on the topic of "Evolution from Off line to On line teaching."
- d. Mrs. Pradnya B.Pathakji has successfully completed the online Short Term Training Program on "MATLAB based Teaching-Learning in Mathematics, Science & Engineering". This STTP was organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai during 18th to 22nd May 2020.
- e. Mrs. Pradnya B.Pathakji has actively participated in HANDS-ON Faculty Development Program on Artificial Intelligence using Python organised by Department of Electronics & Telecommunication Engineering, A.I.S.S.M.S. Institute of Information Technology,Pune Supported by I.E.T.E. Pune Section in association with Brain Vision Solutions India Pvt.Ltd. & National Youth Council of India held from 14-09-2020 to 19-09-2020.
- f. Mrs. Vaishali S. Salunke has completed 11 days exclusive training program Mobile based Smart E-Content development for online Teaching" by Knowledge bridge during 15-25 April 2020




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- g. Mrs. Vaishali S. Salunke has completed 5-days webinar series "Effective use of Digital tools in Academic Administration- "Work from Anywhere Anytime" conducted by HR dept., SPPU, Pune, on 8-13 June 2020
- h. Mrs. Vaishali S. Salunke completed 3-days Online National Workshop on 28,29 and 30 "Python Programming and Applications in Artificial Intelligence and Data Science" conducted by Dept. of Computer Sc., K.K. Wagh institute of Engineering Education and Research, Panchwati , Nashik
- i. Mrs. Vaishali S. Salunke completed 2-days webinar How to use VRIDDHI ONLINE admission along with online payment gateway- discussion on infrastructure requirement and new feature added in VRIDDHI ONLINE" on 23rd , 27th May 2020
- j. Mrs. Vaishali S. Salunke participated in 2-days university level 'Syllabus Implementation of CBCS 2019 Pattern for S.Y.B.Sc. (Computer Science) Electronics Subject' by Kaveri College of Arts,Science and Commerce , Pune in association with BOS,SPPU,Pune on 18,19 June 2020
- k. Mrs. Vaishali S. Salunke participated in 1-day national FDP ON Virtual Electronics Lab for B.Sc. (C.S.) and B.Sc. (Regular) using CircuitMod Simulation on 27th June 2020 by MIT, Arts, Commerce and Science college ,Pune
- l. Mrs. Vaishali S. Salunke participated in 1-day webinar on ' How to conduct virtual labs" by Department of Electronics and telecommunication, AISSPMS,Pune on 24 th June 2020

5. Students' Achievement:

- a. Mr. Aditya S. Jadhav of F.Y.B.Sc. Comp.Sc. one first prize in online Science Quiz competition organised by Science association of the college on the occasion of National Youth Day on 12th January 2021.
- b. Mr. Prathmesh Patil won 2nd prize in Manthan : Debate competition organised by the science association of the college on the occasion of National Youth Day on 12th January 2021


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Photos: