

INSTRUMENTATION: 2017-2018

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- 1. Workshop:**The department in collaboration with other departments of college organised a workshop titled “**Wonders of Science**” for students of East Delhi Schools under the DBT Star College Scheme outreach activity on 17th& 18thMay, 2017. A group of students, majorly from the government schools of East Delhi attended the workshop.

Names of the Resource Person: Faculty members of Department (Dr. Daya Bhardwaj, Dr. Sneha Kabra, Ms. Himani Dua, Ms. Neha Garg, Ms. Reshma Sinha)

No. of participants :50



- 2. Workshop:** A three-day workshop on “**Multisim Software**” for the students of B.Sc. (H) Instrumentation, Electronics and Physics, was organised on 7th to 9th June, 2017. The students learned the basics of software. An activity was organised at the end of the event in which students implemented circuits on the Multisim software.

Names of the Resource Person: Faculty members of Department (Ms. Himani Dua, Ms. Neha Garg and Ms. Reshma Sinha)

No. of participants :30

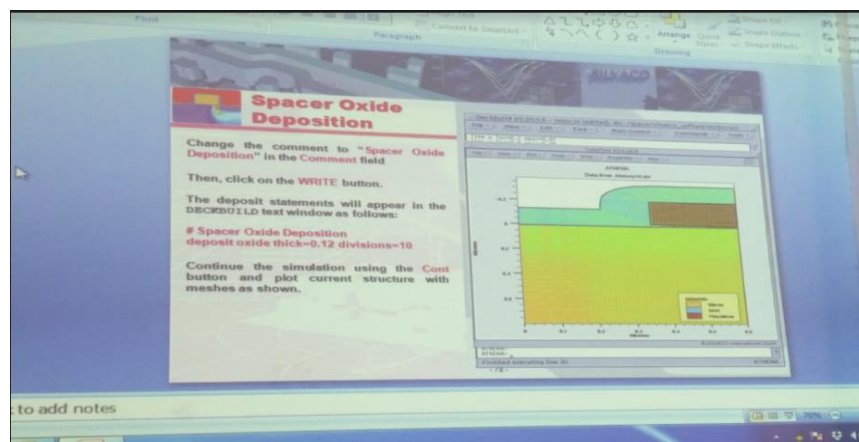
MULTISIM WORKSHOP(2017) SCHEDULE

Program Schedule	
Day 1 (June 7,2017)	
10:00-11:00 AM	Introduction & Exploration of Software
11:00 AM – 12:00 PM	Familiarization with the Database & Circuit making
12:00 – 12:30 PM	Break
12:30 – 2:00 PM	Network Theorems & Filters
Day 2 (June 8,2017)	
10:00 AM-12:00 PM	Diode Characteristics & Applications (Clipper, Clamper, Rectifiers)
12:00 – 12:30 PM	Break
12:30 – 2:00 PM	Biasing, Amplifier & Oscillator
Day 3(June 9,2017)	
10:00-12:00 AM	Activity (Design of some Fundamental Circuit on software)
12:00 – 12:30 PM	Break
12:30 – 2:00 PM	Assessment & Discussion.

- 3. Training:** Department in collaboration with IEEE-EDS, Delhi Chapter organised one-day training session on “**Silvaco TCAD**” on 14th July, 2017. Faculty members and Research scholars attended it. The event was supported by DBT Star college funding.

Name of the Resource Person: Mr. Subhajit Chatterjee from Cognitive Design Technology Pvt. Ltd., Bangalore

No. of participants :08



4. **VYAKHYAN-2017-** The department organised a one-day talk-cum-interaction session with Alumni under activity 'Vyakhyan' sponsored by DBT Star College Scheme on 23rd August, 2017.

Names of the Resource Person: Ms. Surabhi Jain (Research Analyst), Ms. Surbhi Gupta (Research Analyst in Jubilant Organosys Pvt. Ltd, Noida) and Ms. Aparna Sharma (CEO, Innovators and Entrepreneurs' Academy, Dubai, United Arab Emirates)

No. of participants :80



5. **Visit-**The department, along with the Department of Food Technology and Biomedical Sciences participated in the open day at Translational Health Science and Technology Institute (THSTI) on 22nd September, 2017. The event started with the welcome address by Dr. Shinjini Bhatnagar, Dean Clinical Research (THSTI) followed by a talk on 'Cataractogenesis and Theranostics' by Dr. S. V. Eshwaran, Emeritus Scientist (UNESCO-DBT Regional Centre for Biotechnology, Faridabad). Students participated in the intercollege quiz competition and ex-tempore organised by THSTI. Our college secured third position in intercollegiate quiz competition.

Names of the Resource Person: Dr. Shinjini Bhatnagar, Dean Clinical Research (THSTI) and a talk on 'Cataractogenesis and Theranostics' by Dr. S. V. Eshwaran, Emeritus Scientist (UNESCO-DBT Regional Centre for Biotechnology, Faridabad)

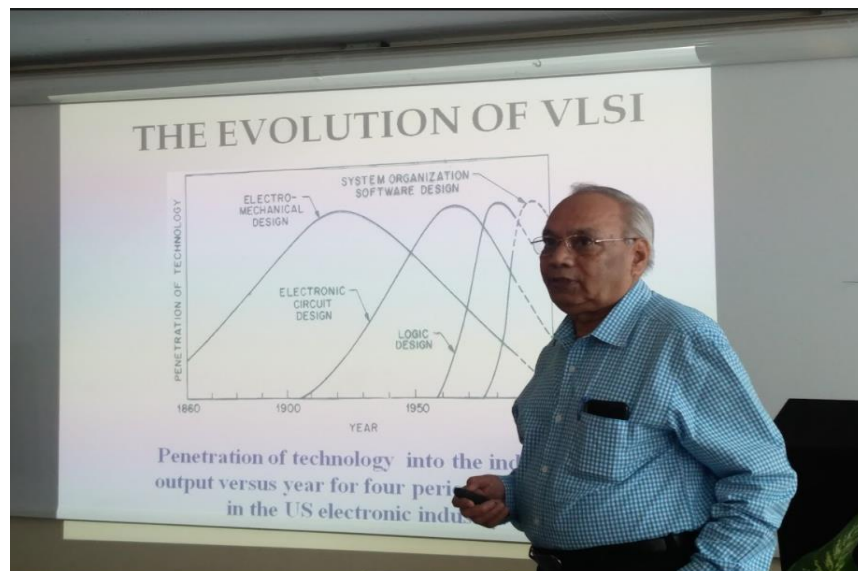
No. of participants :07



6. **Seminar-**The department, in collaboration with IEEE-EDS, Delhi Chapter organised a talk on 'Evolution of Electronics and VLSI Design'. Professor R. S Gupta, Department of Electronics and Communication (Maharaja Agrasen Institute of Technology, GGSIPU) delivered the talk on 26th October, 2017. The event was supported by DBT Star College funding.

Name of the Resource Person: Professor R. S Gupta (Department of Electronics and Communication, Maharaja Agrasen Institute of Technology, GGSIPU)

No. of participants: 60



7. **Technical fest-**Department of Instrumentation organizes inter college technical fest "Technexus" on 26th - 27th October, 2017. These fests are organized every year with the objective to provide a platform for students to showcase their talent with the competitive spirit. The fest was successful enough to attract many students for online as well as on the spot registration in various events.

Name of the Resource Person: Professor R. S Gupta (Department of Electronics and Communication, Maharaja Agrasen Institute of Technology, GGSIPU)

No. of participants :100



- 8. Industrial Visit** -Department of instrumentation organized a one day educational visit to Jubilant Generics and Chemsys, located in sector58, Noida on 1st November 2017. Seven students from BSc.(H) Instrumentation 5thsemester and one faculty member Dr. Daya Bharadwaj went for the visit. This unit is mainly focusing on the research and manufacturing of drugs.

Name of the Resource Person: Dr. Dinesh Kumar, Associate Head, Global IPR, Jubilant Generics and Chemsys, Noida

No. of participants :08



- 9. Workshop-**The department organised a one-week Para Teaching Staff Skill Enhancement Workshop (PTSSEW) jointly sponsored by IEEE, Delhi Chapter, UGC and DBT Star College Scheme from 15th - 21st December, 2017.

Names of the Resource Person: Dr. Garima Gupta (Scientist E, DBT), Dr. S.lakshmi Devi (Founder Principal of College) ,Mr. Rohit Kumar (Agmatel India Pvt. Ltd.), Mr. S.S Negi (Disha Scientific Instruments), Mr. R. Manchanda (HD Global Sciences), Dr. Vimal Rarh (SGTB Khalsa College, University of Delhi) , Dr. Suman Govil (Advisor, DBT), Ms. Shikha Malhotra (Image Consultant & Soft skill Trainer), Colonel (Ret.) B.S. Rehal (Indian Army) and Mrs. Kulwant Kaur, Faculties of Instrumentation, Electronics and Physics Departments.

No. of participants: 43



- 10. Training & Project-** A group of four students of M.Sc. (F) Forensic Science, Department of Anthropology, University of Delhi completed training of 5 weeks at Department of Instrumentation from 17th January- 20th February 2018. They were trained on Analytical Instruments used in Forensic analysis.

Name of the Resource Person:Dr. Daya Bhardwaj

No. of participants :04

Brief overview of Outhouse Training in Instrumentation Laboratory

I express my profound sense of gratitude, appreciation to **Dr. Payal Mago**, Principal, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi for allowing me to carry out training at Department of Instrumentation, under her guidance and for her keen interest, excellent supervision and needful criticism.

Undersigned are the students of M.Sc. (F) Forensic Science, Department of Anthropology, University of Delhi. We have completed our outhouse training of 5 weeks (17-Jan-2018 to 20-Feb-2018) entitled "Hand-on training on Analytic Instruments used in Forensic analysis", at Department of Instrument, Shaheed Rajguru College of Applied Sciences For Women, University of Delhi, under the guidance of Dr. Daya Bharadwaj & Dr. Jasjeet Kaur.

Throughout this out house training we have learnt significance of the instruments in criminal justice system. In this laboratory, analytical laboratory we have learnt principle & operation of the instruments like UV-Visible Spectrophotometer, Flame Photometer, Conductivity meter & Gas Chromatography. The above mentioned instruments are used in forensic science for the analysis of various biological & non-biological samples. During our training period, lab staff of analytical laboratory helps & supported us a lot & provided technical assistance at various stages. We are very thankful to Mrs. Sweta Arya, Mr. Tofique, Mr. Bhuwan and Mr. Manish (Lab staffs of Instrumentation Laboratory).

Moreover during our outhouse training, we have started a small duration project of 6 months, entitled "UV-Vis Spectrophotometer and Gas Chromatographic analysis for dating the writing age of different color of Indian inks" which is supposed to be completed by 20th July, 2018.

- ❖ HEMANT PANDEY (9868916198)
- ❖ POOJA (9717872176)
- ❖ NEHA RANI (8800868915)
- ❖ SWETA KAIM (9716942668)

11.Seminar- Department of Instrumentation in collaboration with ROBOTICA, Robotics club of college organized a talk on Artificial Intelligence on 17th January, 2018. The talk was delivered by Er. Kautilya Kashyap from CETPA INFOTECH PVT LTD.

Name of the Resource Person: Mr. Kautilya Kashyap from CETPA INFOTECH PVT LTD.

No. of participants : 60



12. Excursion trip - Department of Instrumentation in collaboration with Department of Electronics organized an excursion trip to Mcleodganj, Himachal Pradesh for 4 days 5 nights for students of both departments from 14th - 18th March, 2018. Students from Ist, IInd and IIIrd year of the Instrumentation Department participated in the trip.

No. of participants :20



13. Invited Talk- Department in collaboration with IEEE EDS Delhi chapter organized a talk on Emerging Semiconductor Devices and its applications on 4th April 2018. Around 85 participants including students, Research Scholars and Faculty Members attended the talk. The talk was based about the types of “**Semiconductor Devices – High Power Devices, Low Power Devices and Optical Devices.**”

Name of the Resource Person: Dr. D. Nirmal, Associate Professor, Elec. and Comm. Engineering, Department of Electrical Sciences, Karunya Institute of Technology and Sciences, Coimbatore

No. of participants:85



14. VYAKHYAN-2018- Department organized a one day talk cum interaction session with Alumni under activity “Vyakhyan” in collaboration with IEEE Delhi Section Women in Engineering Affinity Group on 7th April 2018. They shared their experience and career journey with the students.

Names of the Resource Person: Ms. Paramita Mukerji (Consultant, WIPRO), Ms. Mukta Jain (Manager, ATM, AAI) and Ms. Poonam Rai (Project Assistant, CSIR)

No. of participants : 50

