

Annual Report 2017-18



Faculty of Engineering

Dayalbagh Educational Institute, Agra

NIRF Rank (Engineering Colleges) : 69

NIRF Rank (University) : 63



Twining Programme



A team comprising of

- 1)Dr.A.Jaya Shree, Director,IST, & Prof.&Head of Chemical Sciences
- 2)Dr.K.Venkateswara Rao , Prof. & Head,Nano Science & Technology,IST, JNTUH , Hyd .
- 3)Dr. M.V.S.S Giridhar, TEQIP-III, Coordinator & Assoc.prof,of Water Resources& BoSChairman,IST, JNTUH , Hyd.
- 4)Dr.T.Vijaylakshmi, Asst. Prof. Centre for Environment& BoS Chairperson,IST, JNTUH , Hyd.

from the mentor institute (JNTUIST) visited the mentee institute (DEI) on October 9-11, 2017. The team saw the teaching-learning activities, laboratories and research facilities at DEI and interacted with the

- Institute Director Prof. P.K. Kalra
 - Treasurer (Finance Officer) Mrs. Sneh Bijlani
 - faculty members and office staff.
- Two days of brain-storming sessions took place with an elaborate pre-planned agenda. covering the salient points given in the next slide.



Twinning Programme

- Second visit of the Director, Coordinator and two senior Professors took place during 15-17th February 2018.
- Team Members:
 - 1)Dr.B.Venkateswara, Director,IST & Prof.of Water Resources,IST, JNTUH
 - 2) Dr.M.Anji Reddy, Prof.of Environment,IST& Director of R&D, JNTUH
 - 3)Dr. M.V.S.S Giridhar, TEQIP-III, Coordinator & Assoc.prof,of Water Resources& BoSChairman IST, JNTUH , Hyd.
 - 4)Prof.C.Radha Krishna, Rtd. Professor of Electrical Engg, and Mentor, IST,JNTUH , Hyd.
- • The team members delivered expert lectures on Geomatics, Water Resource Engineering and lectures on GATE Coaching.
- • Director Briefed on constitution of BoG, NBA and e-SAR Submission.
- • Good Governance workshop was conducted.
- • Future plan of twinning activities was laid out.



Induction Programme

- Mentors Identified
- 7 days Orientation Programme
- Value-based Education with Core Courses
 - Agricultural Operations (52 hours)
 - Cultural Education (one course)
 - Comparative Study of Religions (one course)
 - Compulsory Games (4 Semesters)
 - Co-curricular Activities (8 Semesters)
 - Social Service (52 hours)
 - Scientific Methodology and General Knowledge (4 Semesters)
- Preparatory Courses on Physics, Chemistry, Maths and would be started. (3 weeks as suggested)





NBA Workshop

- NBA awareness workshop was conducted with the help of NPIU.
- The workshop was conducted by Dr. Rupa S. from STCE Mysuru and Mr. Onkar from NPIU.
- All the staff members were familiarised with the NBA accreditation process.



Curriculum Development Workshop for aligning with AICTE Mandate

- A curriculum Development Workshop was conducted to bring down the number of credits to about 180.
- The following External Experts along with all the teaching staff of the faculty participated:
 - Prof. P. K. Kalra, IIT, Delhi
 - Prof. Huzur Saran, IIT, Delhi
 - Prof. Karmeshu, JNU





Industry Preparedness

- Resume Writing/checking (650 students)
- Aptitude Test Practice (246 students in 10 sessions)
- Group Discussion Sessions (206 students in 9 sessions)
- Mock Interviews, 97 students
- Career Guidance (B. Tech 6th semester 260 students)
- Guest Lectures on Expectations from the Co-Op Trainee while at Internship in the Industry, for 6th Sem., Personal Effectiveness 190 students
- Soft Skills (45 students)
- Spoken English (45 students)
- Basic IT (51 students)
- Students Projects (DE/TD , Rural Engineering and Major Projects)





Industrial Visits conducted

- Harduaganj Power Station, Aligarh
- Yamaha Motors, Surajpur
- 400kV substation, Pilipokhar
- Kotsons Transformers
- Atul Generators, Agra
- Prakash Agriculture Industries, Agra
- Ultratech Cement Ind., Aligarh
- PNC Infrastructure, Agra
- Mahaveer Die Casting, Faridabad
- PICL, Faridabad

Expert Lectures

- ***JUGAAD (FRUGAL) INNOVATION: The Journey Toward a Conscious Society***, Navi Rajdou, Author of Bestselling book *Jugaad Innovation*, RHI publishers, 7.12.2017
- ***Career Opportunities for Engineering Students: is Entrepreneurship a Viable Option?*** by Drs. Ajay Sharma, CEO at ASR Ventures & President Rotary International Hague, Netherlands, 26.11.2017
- ***Internship, Choices, Career***, Rajendra S Pawar, Chairman & Managing Director, NIIT Group, 8.12.2017
- ***Self-powered and ultra-low-power circuits and system***, Prof. Aatmesh Shrivastava, Department of Electrical and Computer Engineering, Northeastern University in Boston, MA, USA., 1.1.2018



Maintenance of Solar Power Plants in Remote Tribal Area



- Rajaborari Estate lies in the forest area of Harda District of Madhya Pradesh. It comprises of 7988 acres of land (4723 acres of Forest area, 2907 acres of agriculture land and 358 acres of 'aabadi' land). There are 10 *Dhanas* or hamlets in the Rajaborari estate, which fall under 3 revenue villages, namely, Rajaborari, Tembrubahar and Salai
- Dayalbagh is running social welfare activities such as schools, hospitals, self help groups etc in Rajaborari. As part of these activities, we have helped install sdistributed solar power plants of 30kWp in various institutions at Rajaborari which are maintained by DEI.
- A group of 5 students and one Professor visited Rajaborari for 3 days for maintenance of solar power plants, giving hands-on work experience and a taste of tribal life to the students and the teacher.

Workshop on Deep Machine Learning and AI

- A one day workshop was organised on 30.11.2017 on **Machine Learning and Deep Learning**. In this Workshop, Prof. Prabha Sharma, Ex-Professor, IIT, Kanpur, Prof. Sandeep Paul, Prof. Lotika Singh from DEI; and Mr. Anurag Singh, Mr. Naveen Joshi and Mr. Arun Saxena from Genpact, Noida, Mr. Karan Narain, TCS from industries delivered talks and shared their experience on this topic. Mr. Karan Narain from TCS, Mr. Anurag Singh, Naveen Joshi, Arun Saxena from Genpact explained the necessities and significance of Machine Learning and Deep Learning in Industry.



MATLAB workshop

- 2-day workshop on introduction to MATLAB was conducted for students
- Expert Speakers :
- Mr. Dheeraj Pandey (MathWorks Matlab)
- Mr. Akhilesh Kumar (Design Techsystems)





National Systems Conference 2017



- Total 96 papers accepted and presented with participation from India and abroad.
- 16 - technical sessions
- 3-poster session with 45 poster presentations.
- 7- plenary sessions
- joint session of Michigan State University and DEI on the topic of "Introductory comments and overview of MSU's efforts in addressing global food security" on Dec. 2, 2017



Mandatory Internship

After First Year : 30 days (15 days – in-house workshop training)

After Second Year : 30 days summer internship at industries/IITs

After Third Year : 5 Months internship (Cooperative Education Program), some are getting stipend

Mandatory Internship



Power Grid Corporation of India



- MITACS GRI:** - Two students selected for internship at
- York University, Toronto
 - University of Quebec at Chicoutimi

250 Students placed for 5 month internship under cooperative education programme in (representative list)

Industries: Cadence Design Systems, Microsoft, Sunsure, Gupta Overseas, Keysight, Woodland, Liberty Shoes, Tata International, JSW, DVVNL, Siemens etc.

Research Institutes: IIT Delhi, IIT Kanpur, IISc. Bangalore, TIFR





GATE Results

Students Appeared : 154 (CIVIL, ELECTRICAL, MECHANICAL, CS)

Qualified : 60

Above 90 percentile : 37

Above 99 percentile : 5



DEI Engineering students win Mitsubishi Gold Cup

Mitsubishi Electric India organised 3rd Mitsubishi Electric Cup at Nirma University, Ahmedabad, Gujarat from 15-17th February, 2018. A total 130 teams from several Institutes/Universities all over the country submitted their proposals out of which only top 35 were shortlisted. Four students viz. Abeer Saxena, Mehar Saran, Punarvasu Sharma and Achraj Prakash from Faculty of Engineering under the Supervision of Prof. D Bhagwan Das represented Dayalbagh Educational Institute and stood as the Winners of 3rd Mitsubishi Electric Cup winning the Gold Cup, a cash prize of One lakh rupees and a 7 days trip to Japan sponsored by Mitsubishi Electric.





Procurement Plan

Smart Grid Embedded Systems Lab	1020000
E-MOBILITY	4150000
Energy Efficiency Lab	2000000
Adv. Power Systems Protection Lab	1932028
Adv Digital Design Lab	1400000
5G labs / 6G Labs	1000000
Innovation LabsSensors/Telematics Lab	2671000
IPC Lab	6400000
Electronics Lab	2300000
Media Innovation Lab	1042000
Super Intelligence/ Robotics	1440000

Smart agriculture	1320000
Civil Labs	5460000
Mechanical Labs	2923000
Kinisiology Lab	200000
SMART CAMPUS	2000000
FAB Lab	8020000
Footwear Design Lab	4940000
CAD Lab	5300000
e-Classrooms	5610000
Science Lab-I & II	2100000
Books, E-books	847000
Furniture	1840000
Office Automation & General Amenities	2000000
	67915028



Acknowledgements

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Thank You!