



# **ARYA College of Engg. & Research Centre**

(Affiliated to Rajasthan Technical University, Kota)

• Approved by AICTE, New Delhi)

• S.P.- 40, Kukas Industrial Area (RIICO) Jaipur - 302028

• Website : [www.acerc.org](http://www.acerc.org)

• Ph.: 0141-5148801, 5148802, 5148803

• Fax : 01426-510040

## **2018-2019**

1. **Title of Activity :** TEQIP III RTU (ATU) Sponsored Expert Lecture on Core Engine Driving Innovation & Economic Growth in 21st Century
2. **Date:** 14 Aug 2018
3. **Number of Participants:** 70
4. **Outcome of Activity:** The lecture was attended by students and faculty members and was hosted at Arya College of Engineering & Research Centre.



### **TEQIP III RTU (ATU) Sponsored Expert Lecture on Core Engine Driving Innovation & Economic Growth in 21st Century**

1. **Title of Activity : TEQIP III RTU (ATU) Sponsored National Conference on National Conference on Recent Trends in Engineering & Technology (NCRTE-2018)**
2. **Date:** 26-27 October 2018
3. **Number of Participants:** 150
4. **Outcome of Activity:** Arya College of Engineering & Research Centre Organized the TEQUIP III RTU (ATU) Sponsored National Conference on Recent Trends in Engineering & Technology on 26th and 27th Oct. 2018. NCRTE- 2018 acts as a forum for the academic as well as an industrial community to address the opportunities & challenges and to discuss the scope for future research. The conference brought together academicians, research scholars, engineers and scientists to exchange and share their expertise.

Many research papers were presented during the conference by the students & faculties from Arya Group of Colleges and various other institutions in the fields of Engineering, Technology, Applied Science and Management which covers Electrical, Electronic, Computer Science and Information Technology, Mechanical, Civil, Robotics, Artificial Intelligence, etc.



### TEQIP III RTU (ATU) Sponsored National Conference on National Conference on Recent Trends in Engineering & Technology (NCRTE-2018)



1. **Title of Activity :** TEQIP III RTU (ATU) Sponsored FDP on Machine Intelligence in Swarm Bots
2. **Date :** 06-10 June 2019
3. **Number of Participants:** 40
4. **Outcome of Activity:** Arya College of Engineering & Research Centre (ACERC) in association with RTU, Kota organized a TEQIP-III Sponsored Five Days Faculty Development Program on "Machine Intelligence in Swarm Bots" from 06th June to 10th June 2019. The Resource persons for the FDP were Dr. Pushpendra Kumar Rajput, Dr Mukesh Saraswat, Associate Professor, JIIT, Noida, Dr Anirban Das, Professor, Department of Computer Science, University of Engineering & Management, Kolkata, Dr Jagdish Chand Bansal, Associate Professor, SAU, New Delhi, Dr Amar Kishor, S.N. Sinha College, Jehanabad, ISI, Kolkata.

The objective of this FDP is to present recent trends and applications of machine intelligence in swarm bots. This area is of most importance as there is a significant and growing demand for artificial intelligence (AI) professionals and researchers in businesses, public agencies, and nonprofit organizations. This FDP provided participants with the guidelines to explore the area of machine intelligence in swarm bots and its application. The participants learned to develop methods for solving problems related to diverse computational fields. Swarm intelligence relies on the assumption that small entities working together produce intelligent behavior from simple rules.





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## TEQIP III RTU (ATU) Sponsored FDP on Machine Intelligence in Swarm Bots



1. **Title of Activity : TEQIP III RTU (ATU) Supported Workshop on Python With Machine Learning**
2. **Date : 14-15 September 2018**
3. **Number of Participants: 50**
4. **Outcome of Activity:** Python is the tool of choice for people who want to explore and apply machine learning for their research projects - data analysis, pattern recognition and image processing, whereas Machine learning is a part of Artificial Intelligence. By implementing it we enable a machine to learn how to do a task on its own without explicitly telling it what to do and when. Machine learning methods are commonly used across engineering and sciences, from computer systems to physics. Moreover, commercial sites such as search engines, advertisers, and financial institutions employ machine learning algorithms for content recommendation, predicting customer behavior, compliance, or risk. Python is one of the programming languages used to create Artificial Intelligence.

In order to perform machine learning with python, having some base understanding of python is crucial. Fortunately, due to its widespread popularity as a general purpose programming language, as well as its adoption in both scientific computing and machine learning, python is an ideal match to work with machine learning.

Thus in this workshop we are going to develop projects like Face recognition system over the cloud using ML, designing of ML on real time datasets and more, which utilizes python to its full extent there by circling around machine learning.



### **TEQIP III RTU (ATU) Supported Workshop on Python With Machine Learning**



1. **Title of Activity :** TEQIP III RTU (ATU) Supported Workshop on Civil Engineering Software
2. **Date :** 14-15 September 2018
3. **Number of Participants:** 50
4. **Outcome of Activity:** Department of Civil Engineering as part of its objectives to keep its student abreast with latest in the field organized a two day training program on Civil Engineering software like MSP/Primevira. The program was designed for students exposed to a course on Matrix Analysis of Structures and was hence allowed for second year, third year, fourth year students of the Undergraduate program and first year students of post-graduate program in Structural Engineering. MSP/Primevira are class of software widely used in structural design of civil engineering infrastructure and was hence chosen as a tool that the students of Arya Group of Colleges shall be exposed too. Er. Vinod Garg an expert in the field of computer aided structural engineering having wide experience in design of residential, industrial projects was invited to offer requisite training.



### TEQIP III RTU (ATU) Supported Workshop on Civil Engineering Software

1. **Title of Activity : TEQIP III RTU (ATU) Supported Workshop on Short Circuit Studies of Typical Power System**
2. **Date : 14-15 September 2018**
3. **Number of Participants: 40**
4. **Outcome of Activity:** An electric power system is a network of electrical components deployed to supply, transfer and use electric power. An example of an electric power system is the grid that provides power to an extended area. An electrical grid power system can be broadly divided into the generators that supply the power, the transmission system that carries the power from the generating centres to the load centres, and the distribution system that feeds the power to nearby homes and industries.

Due to the sharp increase in power demand, voltage instability & line overloading have become challenging problems for power engineers. Voltage collapse, unexpected line & generator outages, short circuits & blackouts are the major problems associated with voltage instability. Reactive power unbalancing is the major cause of voltage instability. Therefore to improve & enhance the voltage profile & stability and also reducing the total losses in the existing power system, various FACTS devices, DG systems, contingency analysis, continuation power flows and load flow analysis are the alternative solution. In this presentation, we are going to study about a typical power system of Rajasthan and the various faulty conditions, reasons for blackouts, importance of parallel operations in the system, stability, recent trends in T&D and about automation in Rajasthan's power system using MIPower software.



### **TEQIP III RTU (ATU) Supported Workshop on Short Circuit Studies of Typical Power System**

#### 3.2.2.1: Report of The Event



1. **Title of Activity : International Seminar** on Recent Trends in Maple, SQL, LaTeX and Project Management
2. **Date :** 28 June 2019
3. **Number of Participants: 40**
4. **Outcome of Activity:** Maple is a symbolic and numeric computing environment, and is also a multi-paradigm programming language. Users can enter mathematics in traditional mathematical notation. Custom user interfaces can also be created. There is support for numeric computations, to arbitrary precision, as well as symbolic computation and visualization. With built-in database connectivity, Maple allows engineers and scientists to quickly develop and deploy powerful applications that combine large enterprise databases with the state-of-the-art analysis and visualization tools of Maple. SQL stands for Structured Query Language. It is designed for managing data in a relational database management system. LaTeX is a high-quality typesetting system. it includes features designed for the production of technical and scientific documentation. LaTeX is the de facto standard for the communication and publication of scientific documents.

The Export as LaTeX facility translates a Maple worksheet into a LaTeX 2e document. The Maple LaTeX character style should be used to identify any encodings intended for passing directly through to LaTeX. Product management is an important organizational role. The product manager is responsible for the strategy, roadmap, and feature definition for that product or product line. The position may also include marketing, forecasting, and profit and loss (P&L) responsibilities. In this seminar main objective is to know about the recent trends in maple, SQL and Latex, there uses and demand in the market. Also we know the what is the utilize of them in the today going on correlate market.



**International Seminar on Recent Trends in Maple, SQL, LaTeX and Project Management**



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## **2017-2018**

1. **Title of Activity:** TEQIP III RTU (ATU) Sponsored FDP on Practical Exposures of Image Processing using MATLAB.
2. **Date:** 05-09 June 2018
3. **Number of Participants:** 40
4. **Outcome of Activity:** Arya Group of Colleges (#1stMainCampus) in collaboration with Rajasthan Technical University Organized the TEQIP-3 Workshop on 'Practical Exposures of Image Processing Using MATLAB' from 05 June to 09th June.



## **TEQIP III RTU (ATU) Sponsored FDP on Practical Exposures of Image Processing Using MATLAB**



1. **Title of Activity :** FDP on 32 Success Mantra
2. **Date:** 12 December 2017
3. **Number of Participants: 200**
4. **Outcome of Activity:** Arya Group of Colleges (1stMainCampus) conducted a one day Faculty Development Program by Motivational Speaker, Mr. P. M. Bhardwaj , President , Bhardwaj Foundation , Jaipur on 12 December, 2017 on "32 Success Mantra" with the objective of motivating the faculty members by understanding the importance of adopting new skill set and utilizing their time effectively in order to ensure maximum productivity for the betterment of the students



### FDP on 32 Success Mantra

1. **Title of Activity :** International Workshop on "Intelligent Data Exploration & Analysis"-IDEA-2017
2. **Date :** 19-21 December 2017
3. **Number of Participants: 50**
4. **Outcome of Activity:** Arya Group of Colleges (1stMainCampus) has successfully concluded 2 Days International Workshop on "Intelligent Data Exploration & Analysis"-IDEA-2017. We were truly delighted by the presence of some of eminent personalities from the field of Technologies and Academic with varied internationally Experience.



**International Workshop on "Intelligent Data Exploration & Analysis"-IDEA-2017**



1. **Title of Activity : International Seminar** on Education & Billateral Trade in Australia in Association with Small Business Association of Australia
2. **Date:** 15 November 2017
3. **Number of Participants: 300**
4. **Outcome of Activity:** Arya Group of Colleges (1stMainCampus) organized an International Seminar on 'Australia-India Trade Mission' in association with 'Small Business Association of Australia' to support the wide and diverse Information and Membership in following areas: Education in Australia (Griffith University) & Trade in Australia (Delegation from Brisbane). This exciting initiative helped the students and promoted information on Australian Education and setting up a Business.



## International Seminar on Education & Billateral Trade in Australia in Association with Small Business Association of Australia





**2016-2017**



1. **Title of Activity :** FDP on Soft Computing and Research Tools (SCRT-2016)
2. **Date :** 22-23 October 2016
3. **Number of Participants:** 40
4. **Outcome of Activity:** On the day two of our Faculty Development Programme on Soft Computing and Research Tools (SCRT-2016), Dr. T. V. Vijay Kumar from Jawahar Lal Nehru University, New Delhi delivered a session on Evolutionary Algorithms and Dr. P. S. Rana from Thapar University, Patiala had a session on Letex Tools.



### FDP on Soft Computing and Research Tools (SCRT-2016)



1. **Title of Activity :** Seminar on Importance and Role of Project Management Software in Civil Engineering
2. **Date :** 03 Feb 2017
3. **Number of Participants:** 40
4. **Outcome of Activity:** The Chief Speaker of the seminar was Mr. Vinod Garg, CEO and Founder of PROMAC Advisors Pvt Ltd- Project Management Consultancy.



### **Seminar on Importance and Role of Project Management Software in Civil Engineering**





**2015-2016**



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1. **Title of Activity :** National Workshop on Award's 16
2. **Date:** 12 March 2016
3. **Number of Participants:** 50
4. **Outcome of Activity:** In this workshop Mr. Vekata Sarath and Mr, Akheel Ahmed Khan (Trainees from innovians technologies, Noida) shared the knowledge about Designing on CAD of Winding Motors, Generators, Transformers ", Designing of Transmission Line, etc..



## National Workshop on Award's 16



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## **2014-2015**