



ARYA College of Engg. & Research Centre (ACERC)

- (Affiliated to Rajasthan Technical University, Kota)

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- Approved by AICTE, New Delhi

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Annual Report 2018-19

Arya College of Engineering and Research Centre is imparting higher technical education leading to four-year B. Tech in all core branches of Engineering namely Civil, Electrical, and Computer Science and two-year advanced M. Tech courses in Structural Engineering.

Arya College of Engineering and Research Centre is affiliated to Rajasthan Technical University and are approved by All India Council of Technical Education.

Arya College of Engineering and Research Centre has always witnessed growth and prosperity in every year since its inception. Each year comes with its own and new challenges and we pursue those and create new records and milestones with the help of our visionaries and our faculties.

Arya College of Engineering and Research Centre has a continuous evaluation system. We conduct Online Tests & Assignments at knowledge level, Group discussions, Seminars, Quiz at comprehension level and Case studies, Projects, Computer Programming at the analytical level. Exams are structured with unit tests and Term exams. Pre-final Theory and Practical exams are held to prepare them for the University exams. Best notes of all subjects made by our faculty are provided to the students before the commencement of each unit.

We assess the students' strength and weakness in academics and aptitude and address their needs through various Bridge courses, Certificate courses, Modules on Personality Development, Courses on Life Skills, Courses on Technical Competencies and Counseling courses etc. We use information technology and internet and other visual aids in our teaching methods. We are running various certification courses like AUTO CAD, STADD and Microsoft Technologies like Dot Net for larger benefits of the students.

This year also the college has produced excellent results in RTU examinations. A large number of students has excelled in cultural and sports activities and they have also been punctual in attending the classes.

In our efforts towards academic excellence and growth, we have initiated actions to bridge the gap between the institution and industry. To enhance the employability skills of the students, we at the college are running SDC cell, and CRT program catering to different needs of the students over a period of 4 years.

Placements are considered to be the area where all efforts made by college and students results. We have succeeded in placing maximum students till now in companies like Capgemini, Trigent, Ashok Leyland, Tech Mahindra, ZYCUS, Pinnacle, Genus Power and Infrastructure, AU Bank, Collabera Technologies, Arabol Lubricants, Dhristi Soft, Asahi Glasses, Mphasis, CURA etc. and served various On-campus Placement drives for our students. We have been successful in providing job opportunities from every sector that employ engineers in India. Arya College of Engineering and Research Centre provided the highest selection to Capgemini.

Arya College of Engineering and Research Centre have successfully organized Industry Conclave and attended many such events to ensure better opportunities for students in near future. Arya College of Engineering and Research Centre have notably entered in many MOUs to scale up the industry reach of Arya Group.

Arya College organized an MSME session for the Final Year students of Civil Engineering Branch. The advantages of MSME Certification is that the students can get 5 Lakh Loan without Collateral and 5 no. during PSU Interviews.

Arya Group of Colleges feels the immense pleasure that Dr. Arvind Agarwal, President, Arya College of Engineering and Research Centre and Dr. Puja Agarwal, Vice-President, Arya College of Engineering and Research Centre were invited as Speakers at Industry Academy Conclave, which was held today at JK Laxmipat University, Jaipur It was a moment of glory to present the views in front of Distinguished Academicians and Industrial Tycoons.

Arya College of Engineering and Research Centre Celebrated the International Women's Day with a magnificent program. We felicitated all the female faculty members of Arya College of Engineering and Research Centre and thanked them for being as wonderful as they are. The students and the teachers did an excellent job in making the event a success. Whether it was dance, the quotes or the ramp walks, everything was scintillating and Dr. Arvind Agarwal Sir and Dr. Puja Agarwal Mam provided the awards to very well-known personalities from diverse fields like Dance, Social Services, Health, Astrology, Cooking, Arts, and Entertainment, like Terrence Lewis, Vikas Gupta, Kunal Kapur, Laxmi Narayan Tripathi and many more.

Students and faculties of Arya College of Engineering and Research Centre have participated in the Jaipur Marathon. The center of attraction of the marathon was 'ARIO', The Interactive Running Robot, made by the Robotics Team at the R&D Lab of Arya College of Engineering and Research Centre. The marathon started from Albert Hall and ended at World Trade Park and thousands of people have participated in it.

The Faculty Members of Arya College of Engineering and Research Centre have attended One Day Workshop Program by Dell EMC (powered by Intel) on their new product range and technologies at Hotel Radisson Blu, Jaipur. The basic objective of the workshop was to make the audience aware of the latest technologies.

With the starting of this year, **Arya College of Engineering and Research Centre** like every year celebrated it with our big family of Dear Faculties and Staff Members. Everyone danced, ramp walked and had a great bonding time. Along with the event, there was a session on the essence of Shrimad Bhagwat Geeta followed by lunch.

AMONGST THE ACTIVITIES DURING THE YEAR, at the commencement of the session, student's induction program was conducted for the students of 1st year to acquaint them with the ethos of the college and facilitate their smooth transition from Intermediate to Under Graduate studies. Department-wise presentations on curriculum, course structure, college regulations, extra-curricular activities, club events, community service initiatives etc. made the induction program an ideal introductory session for the fresher's.

Likewise, a faculty orientation program was conducted in February. The objective of the orientation program was to enrich the faculty with motivational qualities for collaborative and cohesive Work, to empower the teachers in imparting the right skills and attitudes to the students enable them to build a successful career, home and society.

An orientation session was also arranged for the faculties who were entrusted with the practical and sessional work. The faculties were asked to demonstrate before the HOD's, principals and procedures to conduct each experiment as per RTU syllabus. This session was educative, interactive and problem-solving. This session gave immense confidence to the faculty to disseminate their knowledge to the students.

Every day in the morning hours,' Class Before Class sessions were arranged where the faculties, who had lectures assigned during the day, gave a presentation before the HODs on the topic they were going to teach the students. Tips for any improvement were offered then and there.

When ideas meet application, creation happens. Arya College of Engineering and Research Centre have developed and set up an indigenous Robotic lab wherein students get hands-on experience in designing humanoids. This is a new concept where are integrating the Robotics, Mechatronics, Electronics and Computer Programming into one piece of instrument, to enhance the skill-set of the students. These prototypes and the subsequent Robo's will help students to integrate the different platforms and learn into a single instrument.

It is an Activity Based Learning (ABL) laboratory comprising of advanced robots which can be used in experiments by the students in a comfortable college environment. Most of the advanced robots have been developed in-house by our efficient technical team.

Computer Science & Engineering

1. Department has taken the initiative of conducting international workshop IDEA-2018 in the month of November.
2. Research Paper publication in various national and international conferences by faculty members.
3. Academic results in this year which were 80% and above.
4. Students have participated in various workshops held throughout the country including.
 - IIT Delhi Hackathon
 - IT Day held in Jaipur.
 - Students Won 1st prize in LAN gaming in held in RTU.
 - Also Won 6th position in technical quiz held in Rajasthan Hackathon.
 - Students achieved a 1st position in the cultural event held in inter-festival at Maharani College.
 - Students stood 1st in various sports events on the university tournaments.
5. Out of 20000 students in Rajasthan, our students (**Abhishek Dadhich & Shanu Sharma**) were selected for their start up idea '**E-Commerce website with drop shipping**' and hence went on a 15 day tour in Silicon Valley in US and visited Google, 42 coding skill, Berkeley University and Stanford University under Rajasthan student Start up Exposure Programme.
6. Our student (**Sameeksha Sharma & Prapti Pandey**) Placed in TOP-10 in '**All India Research Championship**' at IIT Bombay in March 2019.
7. **Computer Science Department** Conducted two day National level workshop on '**Python with Machine Learning**' in correspondence to **IIT Bombay** from 14th -15th September 2018
8. **Conducted** Faculty Development Program on '**Practical Exposure of Image Processing using MATLAB**' from 5th June to 9th June 2018.
9. Conducted various International Seminar like '**Technological Adversities and Research & also on Recent Trends in dependable computing and networking.**
10. More than 80% students placed in various on campus & off campus placement drives in reputed companies.
11. Initiated and started a new club '**code breaker**', for the student and by the students to improve programming skills and recognize new trends in CS and IT.
12. Published various research papers in various national and international conferences in reputed publications like **Springer and Elsevier** by our faculty members.

Electrical Engineering

1. **'Deepanshu Kansal'** Student of Electrical Engg., B.Tech, Batch 2013-17 got 2nd Rank in academics in RTU.
2. Department has conducted **'Sparks -2018 (Power Club) Event'** in the month of February-2018.
3. Paper publication in various international conferences by our faculty members on the **"Innovative Advancements in Engineering & Technology"** which is held on **March 23-24, 2018**
4. Our department has excellence in Academic results in this **year** which were **88%**.
5. Projects and application developed by the students under the guidance of our faculties. Students have made projects on **Wind and solar power plant, Solar Street Light, Automatic solar panel cleaning system etc.**
6. Got **1st Prize In Ramp Show in Maharani College, Jaipur** by **III Year Students**.
7. 13 students got placements in various companies like Capegemini, Tech Mahindra, Cinif technology, AU Bank finance etc.
8. **6 Students** have participated in **'Bhartiya Skill Development University'** for technical skill development.
9. Workshop attended by our faculties on **induction programme on faculty training** organized by **AICTE in different colleges**.
10. Electrical department Conducted two days National conference on 'Recent Trends in Engineering & Technology' sponsored by TEQIP-III from 26-27 Oct.2018 & also Two days national workshop on 'Short circuit studies of typical power system' from 14th - 15th September 2018 in which the students not only learn the theory but also the technical advancement achieved till date in power system through MATLAB were also conveyed.

Civil Engineering

Departmental Achievements:

It had been a very splendid year for Civil Engineering Department. Students achieved many goals and targets and have set up benchmark of Arya over other renowned institutes. They even gave a tough competition to some of the Colleges and Universities and flared the flags of victory over there.

1. Civil Department Conducted One International seminar on “**Global Strategic Management**” in **January 2019**& also Conducted two National Workshop on “**Latest Civil Engineering Software**” in month of **September 2018**& Concrete **Mix design workshop** with association of Wonder cement in month of August 2018.
2. Our Students have started their own start up “**Unique wall Construction Company**” which is sponsored by **Bhamashah Techno Hub**.
3. One student of Civil Department **Bhanu Pratap Singh** has won Gold Medal Inter-Directorate shooting championship in the field of Horse riding and Shooting :
4. Conducted three days survey camp with latest advanced instrument “**Total Station**” at Chandwaji, Delhi Road.
5. Our Faculty members published many research papers in National and International Conference during the current session.
6. Our various students have been placed in reputed companies through Campus placement drives.
7. Organized a 'Concrete Mix Design Workshop' for the final year students of Civil Department at Wonder Cement, Jaipur Plant. The workshop has been fruitful in understanding the various aspects of design mix concrete, its various usages, manufacturing process etc.