



# Annual Report 2019 - 20

(Lockdown Period)



शाहीद राजगुरु कॉलेज ऑफ  
एप्लाइड साइंसेस फॉर वूमन  
SHAHEED RAJGURU COLLEGE OF  
APPLIED SCIENCES FOR WOMEN  
(विन्नी बिग)

Shaheed Rajguru College of Applied Sciences for Women  
University of Delhi

## Poster Presented

S.No.	Title
1	Presented the poster entitled "Size Variational Synthesis of Selenium based Quantum Dots" in the 3 day "International Symposium on Nanoscience and Nanotechnology" organized by Amity Center of Nanotechnology, Amity University, Haryana held from 7 <sup>th</sup> – 9 <sup>th</sup> June 2020 – <b>Dr. Kishan Das</b>

## Webinars Organised

S.No.	Title	Organising Committee	Held on
1	Physical and Mental Wellness was organized in the context of the national Lockdown due to COVID – 19 when we were all stuck at homes.	Physical Education & Sports	28 <sup>th</sup> March 2020
2	'Employee Value Propositions in the Experience Era' hosted by Mr. Suraj Sudhakar, Sr. HR Manager with SAP, an IT MNC.	Department of Management and Financial Studies	9 <sup>th</sup> April 2020
3	Review of Epidemiology & the Clinical Manifestations by Dr. Simardeep Gill.	Department of Management and Financial Studies	13 <sup>th</sup> April 2020
4	'Prospects in Digital Marketing' conducted by Ms. Swati Gupta.	Department of Management and Financial Studies	15 <sup>th</sup> April 2020
5	'Covid – 19: Lessons learnt and road ahead'	Department of Microbiology	17 <sup>th</sup> April 2020
6	'Embracing Traditional Knowledge: Indian Vedic Immuno-boosting Practices' by Prof. Balram Singh, Director at Institute of Advanced Sciences, USA.	Department of Biochemistry	20 <sup>th</sup> April 2020
7	National Webinar on 'Role of technocrats in healthcare emergencies like covid – 19'.The online lecture was delivered by eminent speaker, Dr. Pankaj Parashar, (Department of Physiology and Nodal Officer for	Department of Instrumentation	20 <sup>th</sup> April 2020

शहीद बाहदुर कॉलेज ऑफ  
एडवेंस्ड साइंसेज एंड  
शाहेद बाहदुर कॉलेज ऑफ  
शाहेद बाहदुर कॉलेज ऑफ

## Activities Organised by various Departments

S.No.	Title	Organising Committee	Held on
1	VYAKHYAN 2020 (First session): Online alumni interaction session on the topic "Exploring the future endeavors in the field of environmental studies" via GoToMeeting application.	Department of Instrumentation	2 <sup>nd</sup> May 2020
2	Alumnae Meeting (Batch 2017) – Career guidance, future prospects and experience sharing.	Department of Food Technology	3 <sup>rd</sup> May 2020
3	Alumnae Meeting (Batch 2019) – Mission – Admission: The Road ahead	Department of Food Technology	13 <sup>th</sup> May 2020
4	Healthful Living Video Challenge: An online competition is organized for maintaining personal hygiene both at home and outside. Where Students showcased their creativity by making a short video clip, demonstrating innovative homemade tips to make masks, hand gloves and sanitizers.	Department of Instrumentation	18 <sup>th</sup> May 2020
5	2 – Day Certificate Course – Implementing HACCP in food industries by CII – FACE. The Training focused on the need and implementation of HACCP system in any food industries. Trainer – Mr.Sam Johns	Department of Food Technology	19 <sup>th</sup> – 20 <sup>th</sup> May 2020
6	Online Yoga Quiz under the aegis of IQAC of Shaheed Rajguru College of Applied Sciences for Women, University of Delhi.	Department of Physical Education & Sports	20 <sup>th</sup> May 2020
7	VYAKHYAN 2020 (Second session): Online alumni interaction session on the topic "Career Guidance, Future Prospects and Experience Sharing" via Google Meet application.	Department of Instrumentation	23 <sup>rd</sup> May 2020
8	Five Day Workshop on Moodle: Learning Management System conducted via Google Meet.	Department of Electronics and	8 <sup>th</sup> – 12 <sup>th</sup> June 2020

	Fifty five faculties from 18 educational institutes participated in the workshop.	Department of English	
9	An online farewell party was organized for the outgoing batch of the department, 2019 – 2020.	Department of Psychology	20 <sup>th</sup> May 2020

## Students Achievements

### PRAVRIDHI Eco – Club – Intra College Events

S.No	Competition	Date	Name of Prize Holder
1	Best Out Of Waste	11 <sup>th</sup> April 2020	1 <sup>st</sup> Prize : Chhaya Prajapati B.Sc.(H) Chemistry III year
2	Best Out Of Waste	11 <sup>th</sup> April 2020	2 <sup>nd</sup> Prize: Divya Baghel B.Sc. (H)- Biochemistry II year
3	Best Out Of Waste	11 <sup>th</sup> April 2020	3 <sup>rd</sup> Prize: Sheetal, B.Sc.(H) Mathematics II year
4	Eco Jewellery	11 <sup>th</sup> April 2020	Special Prize – Avantika B.Sc.(H) Chemistry II year
5	Paperless Poster/ Slogan	11 <sup>th</sup> April 2020	1 <sup>st</sup> Prize: Chhaya Prajapati B.Sc.(H) Chemistry III year; Divya Baghel B.Sc.(H) Biochemistry II year
6	Paperless Poster/ Slogan	11 <sup>th</sup> April 2020	2 <sup>nd</sup> Prize: Divya Prakash B.Sc.(H) Biochemistry II year
7	Paperless Poster/ Slogan	11 <sup>th</sup> April 2020	3 <sup>rd</sup> Prize: Kirti B.A.(H) Psychology II year; Saima-Microbiology B.Sc.(H) III year
8	MEME	11 <sup>th</sup> April 2020	1 <sup>st</sup> Prize: Lakshmi Gayathri B.Sc.(H) Instrumentation III year
9	MEME	11 <sup>th</sup> April 2020	2 <sup>nd</sup> Prize, Unnati Bora B.Sc.(H) Computer Science I year
10	MEME	11 <sup>th</sup> April 2020	3 <sup>rd</sup> Prize, Khushi Khera B.Sc.(H) Microbiology III year
11	B PLAN	11 <sup>th</sup> April 2020	1 <sup>st</sup> Prize, Mahak Mahajan B.Sc.(H) Statistics I year
12	B Plan	11 <sup>th</sup> April 2020	2 <sup>nd</sup> Prize, Riya Gupta B.A.(H) Psychology I year



## 29th Annual Report (2019 - 20)



प्राचार्य/Principal  
शहीद राजगुरु कॉलेज अफ  
एप्लाइड साइंसेस फॉर वूमन  
SHAHEED RAJGURU COLLEGE OF  
APPLIED SCIENCES FOR WOMEN  
किल्ली डिविजनालय/University of Delhi  
वसुंधरा एनक्लेव, नई दिल्ली - 110096  
Vasundhara Enclave, New Delhi - 110096

Shaheed Rajguru College of  
Applied Sciences for  
Women

University of Delhi  
Vasundhara Enclave, Delhi - 110096

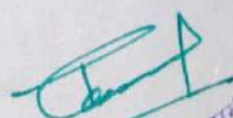
## Internal Quality Assurance Cell (IQAC)

The Internal Quality Assurance Cell has achieved the following targets in the year 2019 – 20.

- The College directory has been designed and released in this academic year.
- Organized a seminar on Advancements in procedure and purchases through Government e – Marketplace (GeM) for faculty and staff of the college.
- Organized a training program on General Aptitude and Technical Writing Program for the staff of the college.
- Initiated a drive to save paper and help making environment eco friendly by recycling of paper in collaboration with Jagruti Waste Paper Recycling Service.
- An internal environmental audit was undertaken.
- The college has committed itself to reduce usage of one time plastic.
- Skill enhancement courses have been organized for students.
- Short term courses have also been organized.
- The student strength has increased and correspondingly the facilities have been enhanced.
- Comprehensive Faculty Information Performa/Academic Audit is being undertaken at the college level.
- The college website is made dynamic, with faculty and students being assigned their independent login ids.
- Comprehensive feedback from students, alumni, employees and parents was analyzed and appropriate action was taken.
- The college is going for NAAC gradation after completing the first cycle.
- The IQAC organized several seminars/workshops/training programs along with various departments. Some of them are listed below:
  - ❖ 26<sup>th</sup> September 2019 – One – day certification workshop on Entrepreneurship Development.
  - ❖ 18<sup>th</sup> October 2019 – Seminar on "Scope of work for Biomedical Scientists in Public Health Specializations".
  - ❖ 21<sup>st</sup> October 2019 – Workshop on Environment Sustainability and Leadership.
  - ❖ 8<sup>th</sup> January 2020 – Seminar on Legal aid session on Fundamental rights and Fundamental duties.
  - ❖ 22<sup>nd</sup> January 2020 – Talk on Violence against Women: Interpersonal and Digital Interface with special emphasis on Delhi Victim Compensation Scheme.

## Workshops Organized

S.No.	Name of the workshop	Organising Committee	Held on
1	"Sensorial workshop by Tag taste" for students and faculty	Department of Food Technology	23 <sup>rd</sup> August 2019
2	Python and its Applications	Department of statistics	12 <sup>th</sup> September – 5 <sup>th</sup> October 2019
3	"Ethical Hacking and Cyber Security"	Ms. Deepali Bajaj Ms. Urmil Bharti	26 <sup>th</sup> – 27 <sup>th</sup> September 2019
4	Data Science Machine Learning	Department of Statistics	21 <sup>st</sup> October 2019
5	Publishing a Research Paper	Department of Psychology	31 <sup>st</sup> January 2020
6	"Train The Trainers" for the faculties and Institute of Advanced Sciences, Dartmouth, USA)	Dr. Sadhna Jain (Convener) Dr. Alok Kumar Singh (Co – convener ) Members – Dr. Lakshmi Sarin, Dr. Bhawana Sharma, Dr. Mohita Bhagat, Dr. V.A. Pratyusha, Dr. Tarun Kumar	10 <sup>th</sup> February 2020
7	"IPR Alternate Career Path"	Dr. Lakshmi Sarin (Convener) Dr. Mohita Bhagat (Co – convener) Dr. V.A. Pratyusha (Co – convener)	17 <sup>th</sup> February 2020
8	"I-SENSOBOTZ for Embedded System Design"	Dr. Sonal Singh, Ms. Neha Garg, Dr. Yogesh Pratap, Ms. Himani Dua Sehgal, Ms Reshma Sinha	17 <sup>th</sup> – 18 <sup>th</sup> February 2020
9	MATLAB	Department of Mathematics	24 <sup>th</sup> – 25 <sup>th</sup> February 2020

  
 प्राचार्य/Principal  
 राष्ट्रीय राजस्थान विश्वविद्यालय  
 RAJASTHAN UNIVERSITY  
 RAJASTHAN UNIVERSITY  
 RAJASTHAN UNIVERSITY

## Seminars Organised

S.No.	Name of the seminar	Department	Held on
1	National Seminar on "Laser Dynamics and Fiber Optics"	Department of Electronics Department of Physics	7 <sup>th</sup> January 2020
2	National Seminar on "Antimicrobial Therapy: Challenges and Future Trends"	Department of Microbiology and Biology	25 <sup>th</sup> February 2020
3	Intellectual Property Rights: A kaleidoscope of Opportunities	Department of Computer Science	2 <sup>nd</sup> August 2019
4	How does a processor execute my code? And Why!	Department of Computer Science	7 <sup>th</sup> August 2019
5	Python and Its Application	Department of Statistics	28 <sup>th</sup> August 2019
6	Soft skills get little respect but they can make or break your career	Department of Management and Financial Studies	3 <sup>rd</sup> September 2019
7	Maternal and Child Nutrition Care	Department of Food Technology	4 <sup>th</sup> September 2019
8	E – nose to smell Tuberculosis	Department of Physics	3 <sup>rd</sup> September 2019
9	Life is a game, play it!	Department of Microbiology and Biology	12 <sup>th</sup> September 2019
10	Relevance of Psychology in Victimology: Indian context	Department of Psychology	12 <sup>th</sup> September 2019
11	CV Building and Interview Skills	Department of Computer Science	17 <sup>th</sup> September 2019
12	Applications of Mathematical Logic	Department of Mathematics	17 <sup>th</sup> September 2019
13	Entrepreneurship opportunities for life science graduates	Department of Biomedical Science	18 <sup>th</sup> September 2019
14	Soft Skills on Employability	Department of Management and Financial Studies	19 <sup>th</sup> September 2019
15	Indian Economy – Opportunities and Challenges ahead	Department of Management and Financial Studies	23 <sup>rd</sup> September 2019
16	Mergers and Acquisitions	Department of Management and Financial Studies	24 <sup>th</sup> September 2019
17	Natural history of HIV infection	Department of Microbiology	25 <sup>th</sup> September 2019





# Annual Report 2018-19

## Nurturing Ideas, Shaping Future



**Shaheed Rajguru College of Applied Sciences for Women**  
Accredited by NAAC with 'A' Grade  
(University of Delhi)

शाहीद राजगुरु कॉलेज ऑफ  
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## Technology Business Incubator

The college has been awarded the approval to have Technology Business Incubator (TBI) supported by the Micro, Small and Medium Enterprises (MSME)-DI, New Delhi in February, 2018. The incubator provides space, shared use of lab equipments, direct business assistance, mentoring, networking to capital & other technical resources. The mission of incubator is to stimulate the establishment & growth of technology based startups enabling students and non-college personnel to become entrepreneurs.

Entrepreneurship development cell of college has organised state and national level business plan competitions on April 2018 & March 2019 in which various participants presented their ideas before the management committee of TBI.

The shortlisted unique business ideas would be supported by MSME, would be developed at Incubator to successful enterprises. By fulfilling this mission, the TBI would be contributing towards job creation & revenue generation and in future, would run the incubator without support.

## Prem Pal Malhotra Memorial Award

This year we are introducing an award, "Prem Pal Malhotra Memorial Award". This award has been instituted in the memory of Mr. Prem Pal Malhotra, out of an endowment contributed by his family. Mr. Malhotra was an Electronics Engineer, who retired as Advisor in the Ministry of Small Scale Industries, Govt. of India. A proud father of three daughters, he always encouraged them to work hard and pursue their goals. A strong supporter of girls' education, this award will be an endeavor to extend his vision and legacy for women empowerment.

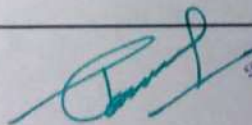
The award, which consists of a cash prize, certificate and a trophy, will be awarded to two students of Department of Biomedical Sciences, to recognize their excellence in Academics and other activities.

## Sh. Bhim Sain Gera Memorial Award & Smt. Chander Kanta Memorial Award

These two awards have been initiated this year by Dr. Punita Saxena, Associate Professor, Mathematics and her family in memory of her parents. These two awards will be presented to two students of B. Sc. (H) Mathematics, III year. It intends to motivate the students to work towards an all round development and excel in all spheres of life. The award will carry a certificate, trophy and a cash prize of three thousand rupees each.

## UGC-sponsored National Workshop on Alternative Methods in Animal Testing

The Department of Biomedical Sciences organised UGC sponsored three day National workshop on "Alternative Methods in Animal Testing" from March 27-29, 2019 in College SRG. The workshop began with keynote lecture by Prof. G. P. Talwar. This was preceded by lectures by Prof. Vani Brahmachari, Dr. B. R. Ambedkar Center for



- ❖ January 23rd, 2019 - Workshop on Dance Movement Therapy under the aegis of IQAC.
- ❖ August 6th, 2018 - Young India : Know Thyself.
- ❖ August 27th, 2018 - Seminar on procedure and purchases through GeM.
- ❖ September 13th, 2018 - Career and growth aspects of Food Technology.
- ❖ October 31st, 2018 - Talk on "Film Making".

### Activities under DBT Star College Scheme 2018-19

The college was awarded **DBT Star Grant** in the year 2014 and was given a further extension for next two years in the year 2018. The various activities organised by Biomedical Sciences, Instrumentation Science and Food Technology in the academic year 2018-19 are as follows :

- The Department of Food Technology along with two participating departments Biomedical Sciences and Instrumentation Science conducted *one-month interdisciplinary summer internship workshop on "Analytical Instrumentation, Food Processing and Life Science Techniques"* from June 4th, 2018 to July 1st, 2018.
- The Department of Instrumentation Science organised workshop entitled *"Document Verification : A Forensic Perspective"* for the staff and faculty members of colleges across Delhi NCR on June 11th, 2018. The key objective of the workshop was to create awareness among officials of colleges/universities to identify document forgery in admission process such as fake mark-sheet, certificates and caste certificates, as well as in their day today life. The 62 workshop participants represented over 50 organizations, including various colleges all over the nation.
- The Department of Biomedical Sciences organised *Alumni Interaction*. Kanika Bansal, an alumna of the Department of Biomedical Sciences (2011-2014) gave a lecture on *Genetic Counselling* on August 9th, 2018.
- A seminar on *"Career and Growth Aspects of Food Technology"* was organised on September 13th, 2018 by the Department of Food Technology.
- The Department of biomedical sciences in collaboration with THSTI organized *SRCASW-THSTI Science Setu Program*. Two lectures were presented on *Drug Discovery in Academic Institutions in India* by Dr. Sanjay Banerjee and *Mathematics in Biology* by Dr. Samrat Chatterjee of Drug Discovery Research Center (DDRC), Translational Health Science and Technology Institute (THSTI) on September 14th, 2018. One debate competition was also organised by the group which was judged by Dr. Dinesh Mahajan and Dr. Sameena Khan both scientists from DDRC.

- The Department of Biomedical Sciences organised lecture on "Innovation and Entrepreneurship in Modern Era" delivered by two eminent personalities – Prof. Bal Ram Singh, Director, Botulinum Research Center, Dartmouth (USA) and Dr. Unnat Pandit, Head of Operations, Atal Innovation Mission, NITI Ayog, in the college auditorium on February 12th, 2019.
- The Department of Food Technology organised *Industrial Visit to NIFTEM and Yakult Danone India Pvt. Ltd.*, Sonepat for II and III year students on February 26th, 2019.
- The Department of Food Technology in collaboration with Quality Council of conducted one day certificate course on "ISO 22000 Food Safety Management Systems" on March 6-15, 2019.

### Science Setu Program

In April 2017, Shaheed Rajguru College of Applied Sciences for Women (SRCASW) collaborated with Translational Health Science and Technology Institute (THSTI), an Institute of the Department of Biotechnology, Government of India, under prestigious SRCASW-THSTI Science Setu Program for three years. This is an initiative to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as career option. In the second year of the collaboration, three activities were organised in the college premises and THSTI to address the changing needs of teaching, learning and research in biological sciences.

On September 14th, 2018, five scientists of the Drug Discovery for Metabolic Diseases Group, THSTI, visited the college and its different laboratories. Two lectures were presented (1) Drug Discovery in Academic Institutions in India by Dr. Sanjay Banerjee and (2) Mathematics in Biology by Dr. Samrat Chatterjee, each followed by an interactive session. The lectures were followed by a Debate on "Experimenting on Animals for Biomedical Research" with Dr. Dinesh Mahajan, Dr. Shilpa Jamwal and Dr. Sameena Khan evaluating the participants.

In the second phase, four students from Biomedical Sciences and Biochemistry Department were provided short-term research training at different labs of THSTI from December 20-28, 2018 under "Shadow a Scientist" Program. The students underwent training under the guidance of eminent scientists, Dr. Sankar Bhattacharya from Molecular Virology group and Dr. Ramandeep Singh from Tuberculosis Research group. The program helped students to explore new avenues, learn new techniques and get an insight of the current research going on in the field of infectious disease biology.

Third program was organised in the college auditorium on February 5th, 2019, wherein six scientists from the Vaccine and Infectious Disease Research Centre (VIDRC) of THSTI interacted with the students and apprise students with the new cutting edge technologies like CRISPR interference. Dr. Guruprasad Medigeshi, Dr. Nisheeth Agarwal and Dr. Milan

### **Dr. Kohinoor Kaur, Assistant Professor**

- Participated in national seminar on '*Probiotics: Ameliorating the Burden of Lifestyle Disorders*' at Ram Lal Anand College, University of Delhi on February 1st, 2019.
- Attended *Flow Cytometry Orientation Program* at BD-JH FACS Academy, ND, 2018.

### **Dr. Richa Sharma, Assistant Professor**

- Participated in national seminar on '*Probiotics: Ameliorating the Burden of Lifestyle Disorders*' at Ram Lal Anand College, University of Delhi, on February 1st, 2019.
- Attended *Flow Cytometry Orientation Program* at BD-JH FACS Academy, ND, 2018.

### **Department of Management and Financial Studies**

#### **Ms. Yuthika Agarwal, Assistant Professor**

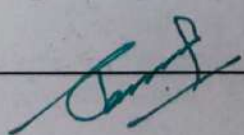
- *Member, Organising Committee, 'Noida Dialogue : Vision 2030, Gautam Buddha Naga'*, February 15-16, 2019 organised by Democratic Outreach for Social Transformation (DOST) and session coordinator for session, 'Education for All'.
- Attended 4th Raisina Dialogue on, '*A World Reorder : New Geometries, Fluid Partnerships, Uncertain Outcomes*' organised by Ministry of External Affairs in partnership with Observer Research Foundation held on January 8-10, 2019.
- Attended, '*India Banking Conclave 2018*' organised by Centre for Economic Policy Research on August 23-24, 2018.
- Attended and organised **FDP on Capitaline Plus and Financial Shenanigans** organized by Department of Management and Financial Studies, SRCASW, DU on September 15, 2018.

#### **Ms. Sanjana, Assistant Professor**

- FDP on Data Analysis using SEM and Panel data, June 2018, MAIMS, Rohini, New Delhi.
- **FDP on "Capitaline Plus and Financial Shinanigans"** organized by Department of Management and Financial Studies, SRCASW, DU on September 15, 2018.

#### **Dr. Nidhi Nijhawan Dhaka, Assistant Professor**

- An SRGM for Multi-Release Open Source Software System, *International Journal of Innovation and Technology Management (IJITM)*, World Scientific, vol. 15(02), pages 1-20, April 2018.



Principal  
SHARDEE RAJGURU  
APPLIED SCIENCES  
UNIVERSITY OF DELHI



# Annual Report 2017-18

*Driving Change, Fostering Creativity*



**Shaheed Rajguru College of Applied Sciences for Women**  
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(University of Delhi)

*Handwritten signature and text in Hindi, including 'महामुद्रिका' and 'शाहीद राजगुरु कॉलेज ऑफ अप्लाइड साइंसेस फॉर वूमन'.*



(MSME)-DI, New Delhi (Feb, 2018 ). The mission of incubator is to stimulate the establishment & growth of technology based startups. The proposed TBI includes space, shared use of lab equipments, direct business assistance, mentoring, networking to capital & other technical resources. By fulfilling this mission, the TBI would contribute to job creation & generate revenue to run the incubator without support.

### **Faculty Development Program (21-27 July, 2017)**

The first UGC, DBT and CSEC sponsored National Faculty Development program on "Recent Trends in Applied Science Teaching (FDP-RTAST)", was conducted by Shaheed Rajguru College of Applied Sciences for women from 21-27 July, 2017. The 7-day Faculty Development Program was inaugurated by Padmabhushan Prof. M.D Athreya as a chief guest, who focused on improving the quality of teaching and empowering the students with subject skills for future. The guest of honors Dr. Deepika Bhaskar, Deputy Dean Research and Coordinator CSEC DU, Dr. S. Lakshmi Devi University of Delhi and Dr. G. S. Sodhi also enlightened the program by their topics of current interest such as values in education, grant writing and forensic science.

The program was divided in two sections i.e. biological & chemical sciences and physical sciences. Various sessions were held in both sections including the hands on practice. Biological and chemical sciences included the sessions; engineering techniques in molecular biology, chromatography separation techniques and plant tissue culture and bioinformatics, held by various speakers and hands on practioners (both inhouse and guests) like Dr. Samim, Dr. Varsha Mehra, Dr. Rekha Mehrotra, Dr. Jasjeet Kaur, Dr. Radhika Bakhshi, Dr. Sadhna Jain, Dr. Indu Arora. Physical sciences also included various sessions; laser and its applications, advance electronics, LaTeX and Mathematics which were held by various speakers and hands on practioners (both inhouse and guests) like Dr. Ajoy Ghatak, Prof. Mridula Gupta, Dr. Punita Saxena, Dr. Venika Gupta, etc. Motivational session was also been held in which Dr. S.K. Palhan was speaker. A small session on Intellectual Property Rights (IPR) was also held for both sections in which Ms. Sangeeta Nagar, Ms. Jaya Bhatnagar and Mr. Yashwant dev Panwar were speakers. On 7th day valedictory and certificate distribution was done in the presence of our chief guest Dr. Suman Govil, Advisor, DBT and guest of honor Dr. Pratishtha Pandey, Scientist E, DST.

### **National Para-Teaching Staff Skill Enhancement Workshop (PTSSEW 2017)**

The College organised a one week Para teaching staff skill enhancement Workshop (PTSSEW) from Dec 15-21 December, 2017; jointly sponsor by IEEE Delhi chapter, UGC and DBT Star College Scheme. It was attended by 43 participants from various parts of India. The work shop was inaugurated by Chief Guest Dr. Garima Gupta, Scientist E, DBT followed by Inaugural lecture on work ethics by Dr. S. Lakshmi Devi, Founder Principal, Shaheed Rajguru College. Various technical hands on sessions viz. Introduction to measuring instruments, study of PCB of power supply, function of various features of function generator and CRO, their trouble shooting, Chemical Inventory Management, 'Safety in lab' and Repair and maintenance of analytical instruments' were organised by eminent academicians and industry persons. Session on personal grooming was also organised for the participants. Delhi visit was organised for

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APPLIED SCIENCES FOR WOMEN  
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New Delhi





## Annual Report-2016-17

I take great pleasure in presenting the Annual Report of **Shaheed Rajguru College of Applied Sciences for Women** documenting its developments and achievements. The year 2016-17 was marked with many events and success stories. This can be attributed to the dedication and team spirit of the members of the management, staff and students.

Today we celebrate the 26th Annual day of the college which means more than 25 years of togetherness, dedication, commitment, cooperation and evolution.

We are extremely honored to have **Prof. Mool Chand Sharma as our Chief Guest** to grace this occasion.

Prof. (Dr.) Mool Chand Sharma, former Professor of law at Delhi University has more than 3 decades of teaching & research experience and has been associated with national and international institutions. His prior engagements include — Full-time Member of Law Commission of India, Vice Chancellor, National Law University, Bhopal; Vice-Chairperson, University Grants Commission; Secretary, University Grants Commission; Vice Chancellor, Central University of Haryana; Research Director, Ford Foundation; Research Adviser, National Human Rights Commission. He has also served as a research policy advisor to former president Smt. Pratibha Devi Singh Patil.

Prof. Sharma has been associated with various scientific and policy initiatives at national level including working on issues such as : Public Liability Law, Disaster Management, Indian Intellectual Property Regime in the context of WIPO in WTO, devising corporate social

University, Delhi University, Scientists, PhD Scholars, M.Sc and B.Sc students from various parts of the country.

The workshop was a hands on training programme and gave an insight of how the technology can be used in molecular recognition in biological systems. This workshop provided an overview of protein-ligand interactions and drug design principles. The audience got an opportunity to get familiar with all the techniques used in Genomics, Proteomics, Virtual Screening, Molecular Docking, Simulations & Dynamics, ADMET studies and participants also learned to use various software used for the same like ChemSketch, Openlabel, SPDBV, AutoDock, UCSF Chimera etc. Dr Indu Arora & Dr Manisha Khatri co-ordinated the workshop.

### **2nd National Conference on Understanding the Mechanism and challenges of Complex Diseases (UMCCD-2)**

The Department of Biomedical Science, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, organized DBT sponsored second National Conference on "Understanding the Mechanism and Challenges of Complex diseases (UMCCD-2017)" on 24th to 25th January, 2017. **Prof. Dr. Seyed Ehtesham Hasnain**, Vice Chancellor Jamia Hamdard University inaugurated the conference. **Dr. Suman Govil**, Advisor DBT was guest of honour and graced the occasion with her presence. Prominent Scientists like **Prof. Kanury V. S. Rao**, Director THSTI, **Prof. Chinmay S. Mukhopadhyay**, Special Center for Molecular Medicine, JNU, **Dr. Anurag Agrawal**, Scientist CSIR, IGIB, **Dr. Devesh Bhardwaj**, Associate Vice President, Mankind Research many more were speakers for this conference. This was a well-attended mega event with delegates from different Colleges of University of Delhi, Delhi Technological University, Amity University, West Bengal University, Dayalbagh University, Agra and other renowned Institutes and Universities of the country.

### **National conference on Recent Trends in Instrumentation and Electronics (RTIE-2016)**

Department of instrumentation in collaboration with Department of Electronics organized the 2nd National conference on Recent Trends

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University of Delhi

- Several project depicting environmental issues were made. Some of them are :
  1. Energy saving fountain
  2. Homemade pH indicator Kit: An approach to green chemistry
  3. Adulteration Kit
  4. Herbal cosmetics.
  5. Hydraulic arm: Step for sustainable Environment
- Eco day is also celebrated to further highlight the significance of clean environment where in following activities are carried out:
  1. Environmental Quiz
  2. Debate
  3. Slogan Writing
  4. Treasure hunt
  5. Herbal drinks and food preparation
  6. Herbal rangoli

A team of 20 student of Ecoclub participated in a project 'sanitation and health : the need of hour', a TERI and Genpact initiative where in the team won 3rd prize and a cash amount of Rs 25000.all across Delhi and NCR region.

## Departmental Activities

### Department of Biomedical Science

- Outreach activity organized on 30th August 2016 for Ahlcon Public School students of class XII.
- An educational trip to Dabur Industry for final year students of B.Sc (H) Biomedical Science on 23rd September, 2016 was organized.
- World pharmacy week was organized on 9th September 2016 in the department. Dr.Y.K.Gupta (H.O.D. of Department of Pharmacy, AIIMS) was the guest speaker and talked about the various stages of drug discovery and methods of administrations.
- Two day National workshop on "Drug Discovery Technology — Computational Approaches in Drug Discovery & Design" on 12th

- Organized annual IT festival "Tech Melange' 2016" on 20th October 2016. This technical extravaganza was a perfect confluence of technology, creativity and fun. The event was inaugurated by one of our alumnus -Ms. Diksha Mishra. The event had an array of technical and non-technical events, including an online riddle event BRAINWRECK, and witnessed a whopping participation of more than 400 students from more than 25 institutes across Delhi-NCR.
- Organized a departmental trip to Nainital and Jim Corbett Park, Uttarakhand from 29.03.2017 to 01.04.2017.
- Organized a computer literacy program for the students of underprivileged section of the society for the session September 2016 to November 2016 and another ongoing session from January. This programme aims to help underprivileged girls/women to be self reliant and confident in using current technologies in their day to day life and also make them better suitable for jobs where basic computer literacy is a pre-requisite.
- Organized one-day workshop on "Big Data Hadoop" on 23.09.2016 in association with CETPA Infotech Pvt. Ltd.
- Organized a workshop on Basic Computer Skills, Microsoft Word and Excel from 6th -20th June 2016.
- Organized a computer training session for non-teaching staff of the college from 28.11.2016-16.12.2016. The main focus of the workshop was to provide hands on sessions covering Microsoft Office packages like MS Word, PowerPoint and Excel.
- Organized a workshop on "Vittiya Saksharta Abhiyan" from 19.12.2016 to 20.12.2016 for non-teaching staff, NSS volunteer, housekeeping staff and guards of the college.
- Organized Digital Empowerment for Homemakers (DEH) programme in association with SakhiSaheli, an active NGO working for women welfare and empowerment in Vasundhara Enclave. The objectives of this initiative are to digitally literate non working women of all age groups and enable them to acquire basic ICT skills.

- Conducted 2 days workshop on CASHLESS TRANSACTION for non teaching staff and housekeeping staff on 19-20 December 2016.
- Conducted workshop for non teaching staff on basic computer skills from 28.11.2016 to 16.12.2014.
- Organised industrial trip to DUCC for B.Sc. (H) computer science, II year students on 4th November 2016.

**Mr. Sumit Kumar, Assistant Professor**

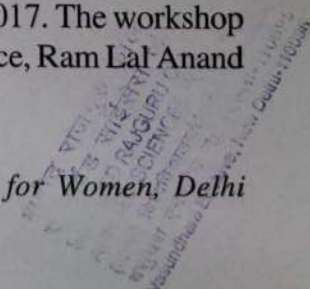
- Completed and submitted the innovation project on Mobile phone based Attendance app: An innovative approach towards futuristic e-colleges in year 2016.
- Organized industrial trip to DUCC for B.Sc. (H) computer science, II year students on 4th November 2016.

**Ms. Seema Thakur, Assistant Professor**

- Attended two days international workshop on BIG DATA ANALYTICS in JNU on 17-18 March 2017.
- Conducted 2 days workshop on CASHLESS TRANSACTION for non teaching staff and housekeeping staff on 19-20 December 2016.
- Organised industrial trip to DUCC for BSc(H) computer science, II year students on 4th November 2016.

**Ms. Tulika, Assistant Professor**

- Organized an internship drive for IBM Live Projects. The drive was conducted in collaboration with IBM Business Partner Headstart on 27 February 2017. Total 285 students from various departments (Computer Science, Electronics, Instrumentation) participated in the drive.
- Attended one-day workshop on “Spatial Data Analytics and Wireless Sensor Networks” held on 24 January 2017. The workshop was organised by Department of Computer Science, Ram Lal Anand College, University of Delhi.





## ANNUAL REPORT 2015-16

It is with a great sense of anticipation that all of us at Shaheed Rajguru College wait for the College Annual Day. The day is marked by the celebration of the achievements of the whole college community, including the teachers and the students. It is on this day that we remind ourselves of the hurdles crossed and laurels won through cooperation and hard work.

The annual day commemorates the consistent effort of members of the college in enhancing the academic, social and cultural ethos of the college.

Today we celebrate the 25th Annual day of the college which means more than 25 years of togetherness, dedication, commitment, cooperation and evolution.

We are extremely honoured to have **Mr. Gopal Rai**, Transport and Rural Development Minister of Delhi. Mr. Rai is a Post-graduate in Sociology from Lucknow University. He began his career with the All India Students Association, the student wing of the Communist Party of India, in Lucknow University. He is a member of the National Executive of the Aam Aadmi Party. He is also a social activist and a member of the Political Affairs Committee of the Aam Aadmi Party.

We are indeed fortunate to have **Prof. Ajoy Ghatak**, a renowned physicist with us on this occasion. Professor Ghatak has written over 170 research papers and more than 20 books. His undergraduate text on *Optics* has been translated to Chinese and Persian and his monograph on *Inhomogeneous Optical Waveguides* (co-authored with Professor Sodha) has been translated to Chinese and Russian. In 1995, he was elected Fellow of the Optical Society of America for distinguished service to optics education and for his contribution to the understanding

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valuable knowledge on different realms of advancement in technology in the field of electronics and computer science.

### **National conference on Advances in Food Science and Technology — 16-17 March, 2016**

The Department of Food Technology, Shaheed Rajguru College of Applied Sciences for Women organized first National conference on Advances in Food Science and Technology on 16-17 March, 2016. The conference was sponsored by University Grants Commission and Department of Biotechnology, Govt. of India. It provided a common platform to research scholars, academicians, industry professionals and students to share new innovations, research findings, recent trends and developments in the area of Food science, Nutrition, Safety, Food Regulatory affairs etc. The conference saw participation of more than 200 people over two days.

The conference began with a formal inaugural session. Dr. K. M. Chacko, Director, Sri Ram Institute of Industrial Research was the guest of honour. Other guests included Dr. S. Lakshmi Devi, Former and Founder Principal of the college, Mr. K. L. Radhakrishnan, Former Secretary and Chief Editor, All India Food Processors' Association and Ms. Richa Pandey Mishra, Chairperson, Governing Body. The guests were welcomed by Principal and Conference Patron, Dr. Payal Mago. Dr. K. M. Chacko gave the inaugural address.

The conference included technical sessions and oral paper presentations. About 35 papers were published in the proceedings and 50 posters were presented.

### **Interlock Session of College Students with Transport Department for U-Special**

An interlock session regarding arrangement of U-special service and metro feeder facility for the college students was organised with Shri Vijay Chauhan, District Incharge of Lakshmi Nagar. The event began with a presentation on the problems being faced by the students in commuting through the Bhajanpura-Noida route along with suggestions

## NAAC Visit

College feels elated to have been accredited grade “A” by National Assessment and Accreditation Council (NAAC). It is a moment of honour and pride to have been placed amongst the top rated universities/colleges of the country. The peer review team constituted by NAAC authorities visited college on 5th, 6th and 7th November 2015. The team was headed by Prof. Kuldeep Kumar Raina (Chairman) along with Prof. Rita Bakshi (Coordinator) and Prof. Savita Dixit. They interacted with the Principal, faculty members, staff, students, alumni and parents. They visited all the departments and laboratories. The interactions with the students in the labs and class rooms were very constructive and valuable. The support services of the college such as library, office, hostel, canteen, NSS room and the sports facilities. The team indeed facilitated critically assess ourselves. They helped us in identifying our strengths and weaknesses. They shared valuable suggestions that will definitely help us improve and utilize our potentials more. As a token of remembrance, the team planted a chickoo plant (*Manilkara zapotaa*) in the fruit orchard of the college.

## National Conference on Advancements in Electronics and Computer Applications — 4-5 February, 2016

Department of Electronics & Computer Science organised a UGC and Department of Electronics & Information Technology (DeitY) sponsored **National Conference on Advancements in Electronics and Computer Applications** on 4-5 February, 2016. NCAECA'16 aimed to bring together undergraduate students, postgraduate students, researchers, scientists, engineers and technologists working in academic institutes, research laboratories and industries to interact with each other by providing an opportunity to present their work as well as exchange information and understanding on recent advancement in the field of Electronics & Computer Science application.

The Chief Guest, honourable Prof. Mushahid Hussain, Vice Chancellor, M. J. P. Rohilkhand University, Bareilly enlightened the students on the topic Nano-Science. Special invitees were Dr. S. K. Muttoo (Department of Computer Science) University of Delhi and Prof. Avinashi Kapoor (Department of Electronics), University of Delhi. Invited speakers shared



- The students and faculty attended DBT organized **Workshop-cum-Camp on Foldscope**, an origami microscope at Sri Venketeswara College and public lecture at Gargi College including the interaction session for teachers and students of different life science departments in colleges supported by DBT under the Star College Scheme.
- 3 Faculty members of the Department participated in QIP Short term Course on **“Trends in Harnessing Food Safety and Quality : Indian Prospective”** on 1st-4th December, 2015 at IIT Delhi.
- The students and Faculty attended the World Food Day Celebrations and National Seminar on **“Social Protection and Agriculture — Role of Cooperatives and Food Processing Industries”** organized by AFST(I) Delhi Chapter on 16th October, 2015 at NCUI Auditorium.
- The Department celebrated **“World Food Day”** on 13th October, 2015 with great enthusiasm
- Students participated in WALKATHON **“Surakshit Khadya Abhiyan”**, a national mission on safe food organized by CII Jubilant Bhartia Food and Agriculture Centre of Excellence (CII-FACE) with the purpose of awareness among the youth regarding FOOD SAFETY on 4th October, 2015 at Jawaharlal Nehru Stadium, New Delhi.
- The Department celebrated **“World Heart Day”** on 29th September, 2015 in which students made presentation and participated in various activities.
- The students and faculty attended the National Seminar on **“Enabling ‘Make-in-India’ in Food Processing Sector”** on 12th August 2015 at Pragati Maidan, New Delhi.
- Organized a 2-day training program on **Banana Ripening in collaboration with National Centre for Cold Chain Development** on 16th-17th June, 2015.