

# ONE WEEK SHORT TERM COURSE ON

## EMERGING TRENDS IN DATA SCIENCE AND IT'S APPLICATIONS (11<sup>th</sup> - 15<sup>th</sup> Nov., 2019)



ORGANIZED BY

### Department of Mathematics



**J.C. Bose University of Science & Technology,  
YMCA, Faridabad**

NAAC 'A' Grade Accredited State Govt. University  
(Established by Haryana State Legislative Act No. 21 of 2009  
Recognized by U.G.C u/s 2(f) & 12(B) of U.G.C Act 1956)  
NH-2, Sector 6, Mathura Road, Faridabad (Haryana) 121006,  
[www.jcboseust.ac.in](http://www.jcboseust.ac.in)

## ABOUT UNIVERSITY

J.C.Bose University Of Science And Technology erstwhile, 'The YMCA University of Science and Technology' was established in the year 1969, as a joint venture of the National Council of YMCAs of India, Govt of Haryana and the Central Agencies for Development Aid, Bonn, Germany. The Institute has been granted "University" status since 1st Dec., 2009 (established by Haryana State Legislative Act No. 21 of 2009 & validated by UGC Act 1956 u/s 22 to confer degrees). YMCAUST has been granted 'Best Upcoming University award' by Associated Chamber of Commerce and Industry of India in Feb., 2014 under National Education Excellence Awards 2014. University has been accredited by National Assessment & Accreditation Council (NAAC) with 'A' Grade in 2016. According to NIRF-2017 ranking, YMCA University has made it's place in Rank-band between 101 and 150. The University also holds place in top 10 ranking institutes on NPTEL since last two years. The University offers B.Tech. degree course in eight disciplines namely Civil, Information Technology, Computers, Electronics and Communication, Electronics Instrumentation Control, ECC, Mechanical & Electrical Engineering and Post Graduate Degree courses like M.Tech., M.Sc., MBA, MCA and Ph.D. The flexible, wide & dynamic curriculum has led to the development of various branches of technology as per interest of students. There are many undergraduate courses (B.Sc. in Mathematics, Physics, Chemistry and Animation, BA in Journalism & Mass Communication, BCA and BBA) newly run by the university. The University is situated on NH-2, Mathura Road, 30 km from National Capital, Delhi. The University campus is located in the sprawling Faridabad-Ballabgarh Industrial complex.

## DEPARTMENT OF MATHEMATICS

Department of Mathematics is one of the important pillar of the University which provides the foundation and vision for the future to the students and to make the students to see the wider spectrum of the life. Apart from classroom teaching students learn through various activities like Expert's Talks, Seminars, Workshops, Conferences, Quizzes & Debates etc. Our vision is to be one of the renowned institute of research in mathematics and its applications as well as in teaching and learning. The department's mission to impart the knowledge, clear and deep understanding of the subject and to prepare the students, so they can face the challenges and use their knowledge to make a better world.

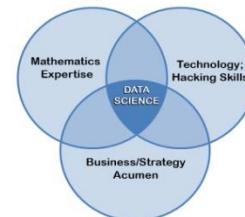
In 2018, the department has started a new undergraduate course B.Sc honours in Mathematics

The Postgraduate course being run in the department with the objectives to develop Mathematical attitude in students, nurture their interests towards mathematics and motivate them for research in mathematical sciences.

The Department also offers Doctorate degree in fields of Mathematics like Partial Differential Equations, Quantum Optics, Queueing Theory, Numerical Analysis, Reliability Theory, Operations Research.

## ABOUT THE PROGRAMME

Data science is an interdisciplinary field of scientific methods, process, algorithms and systems to extract knowledge from data in various forms, either structured or unstructured similar to data mining. Data science has a very promising future and has a lot of scope. The disciplinary areas that make up the data science field include Mining, Statistics, Analytics. This one week short term course on Emerging Trends in Data Science & its Applications is designed to equip participants with the knowledge on Optimization, Data Mining, Statistics and many more



The programme will cover some of the emerging topics in Data Science

- **Optimization**
- **Information & Coding Theory**
- **Statistics**
- **Markov and Non Markov**
- **Data Mining**
- **Artificial intelligence**
- **Fuzzy theory**

## RESOURCE PERSON

- Prof. Madhu Jain - IIT, Roorkee
- Prof. Karmeshu - J.N.U, Delhi
- Prof. H.C. Taneja - DTU, Delhi
- Prof. Bhudev Sharma - Ex. Prof. JIIT, Noida
- Prof. Alka Choubey - JIIT, Noida
- Prof. Amarish Aggarwal - JIIT, Noida
- Prof. P.K. Kapur - Ex. Prof. DU, Delhi
- Prof. Hari Arora - Amity University, Noida
- Prof. Pankaj Gupta - DU, Delhi
- Prof. Anu Aggarwal - DU, Delhi
- Dr. Paramjeet Singh - Senior Data Scientist, Global Logic, Noida

## **PEDAGOGY**

The pedagogy consists of expert lectures, interactive sessions & discussions.

## **PARTICIPATION**

The program is interdisciplinary and is open to faculty members of all departments of engineering, science, management and humanities, approved under AICTE & UGC

## **REGISTRATION**

There is **no registration fee** for this course.

The registration form can be downloaded from the university website [www.jcboseust.ac.in](http://www.jcboseust.ac.in). The duly filled registration form recommended by the competent authority should reach the coordinator latest by 6th Nov 2019.

## **ADDRESS FOR CORRESPONDANCE**

### **Dr. Reena Garg**

STC Coordinator, (Department of Mathematics),  
J.C. Bose University of Science & Technology, YMCA,  
Sector 6, NH 2, Mathura Road, Faridabad (Haryana) -121006.  
Mobile : 9899390778

Email: [stcmathsymca@gmail.com](mailto:stcmathsymca@gmail.com)

Note: Advance copy of application can be emailed to above address for immediate action.

## **ADVISORY COMMITTEE**

- **Dr. Sandeep Grover**  
*Dean of Institutions*
- **Dr. Tilak Raj**  
*Dean, Faculty E&T*
- **Dr. Komal Bhatia**  
*Dean, Faculty I&C*
- **Dr. Arvind Gupta**  
*Dean, Faculty of Management*
- **Dr. Raj Kumar**  
*Dean, Faculty of Sciences & Humanities*
- **Dr. Naresh Chauhan**  
*Dean, Student Welfare*
- **Dr. Vikram Singh**  
*Dean, Academics Affairs*
- **Dr. Atul Mishra**  
*Dean, Research & Development*
- **Dr. Munish Vashishth**  
*COF, TEQIP Coordinator*
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- **Dr. Neelam Turk** (Chairperson)  
*Department of Electronics Engineering*
- **Dr. M.L. Aggarwal** (Chairperson)  
*Department of Civil Engineering*
- **Dr. Ashutosh Dixit** (Chairperson)  
*Department of EVS, Physics & Chemistry*

## **COORDINATORS**

### **CHIEF PATRON**

**Prof. (Dr.) Dinesh Kumar,**  
**Vice-Chancellor**

### **PATRON**

**Dr. Sunil Kumar Garg**  
**Registrar**

### **PROGRAMME CHAIR**

**Dr. Raj Kumar**  
**Dean, Faculty of Sciences**

### **PROGRAMME CONVENER**

**Dr. Neetu Gupta**  
**Chairperson, Department of Mathematics**

### **COURSE COORDINATOR**

**Dr. Reena Garg**  
**Assistant Professor**

### **COURSE CO-CORDINATOR**

**Ms. Nisha Singh**  
**Assistant Professor**

## **ORGANIZING COMMITTEE**

- Dr.Arpana Chatterjee
- Dr.Ramu Dubey
- Dr.Uma Arora
- Dr.Pooja Gupta
- Dr.Shubham
- Ms.Hemlata Aggarwal
- Ms.Rupali
- Mr.Kuldeep
- Ms.Nitesh
- Ms.Anjali

## **VENUE**

Department of Mathematics  
J.C.Bose University of Science & Technology, YMCA, Faridabad  
Sector 6, NH-2, Mathura Road, Faridabad (Haryana)

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on

### **"EMERGING TRENDS IN DATA SCIENCE AND ITS APPLICATIONS"**

at  
**Department of Mathematics**  
**J.C. Bose University of Science & Technology,**  
**YMCA, Faridabad**  
**(11<sup>th</sup> – 15<sup>th</sup> Nov., 2019)**

## **Registration Form**

Name: \_\_\_\_\_

Qualification: \_\_\_\_\_

Designation: \_\_\_\_\_

Experience (Teaching/Industrial/Others): \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile No.:

E-Mail :

**Requirement of Accommodation : Yes / No**  
**If Yes, the cost would be borne by the participant as per the guest house/Hostel charges**

**Recomendation of the Principal/Head of the sponsoring institute ( Signature with seal)**

**Signature of the Applicant**

