

# Brochure of Value-added courses: 2020-21

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# Target Group: All the Students of Environmental Sciences

## Course Content

The experts from diverse fields related to environment will throw light on the key Environmental issues and their possible Green technological solutions for sustainable development. During the course the following broad areas would be discussed:

- Global Climate Change and Sustainable Development
- Energy Efficiencies
- Waste Management
- Bioenergy
- Environmental Nanotechnology
- Green Building
- Smart Water Solutions
- Water and Air Pollution Management

## REGISTRATION

Registration to the course is free and can be done using following link:

<https://forms.gle/xvTmyAjdsBJvrmeA9>



Last Date of Registration:  
4<sup>th</sup> September, 2020

Certificates will be provided to the students after evaluation.

## Course Coordinators

**Dr. Renuka Gupta**

Chairperson  
Deptt. of Environmental Sciences

**Dr. Somvir Bajar**

Assistant Professor,  
Department of Environmental Sciences

**Mrs Anita Girdhar**

Assistant Professor,  
Department of Environmental Sciences



## J.C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD

(A Haryana State Government University)

Accredited 'A' Grade by NAAC

NH- 2, SECTOR-6, MATHURA ROAD, FARIDABAD

## Department of Environmental Sciences

Organizing

**Online Value Added Course**

on

**'Green Technologies and Environmental Sustainability'**

on

**September 7-16, 2020**





## About J. C. Bose University of Science and Technology, YMCA, Faridabad

J.C. Bose University of Science and Technology, YMCA, formerly known as YMCA University of Science and Technology, has exerted a great deal of effort to promote the Technical Education in the State and the Country at large over the past five decades since its inception as an IndoGerman project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project and RUSA Scheme of MHRD, Govt. of India. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, our students are well accepted by the industries. The University offers B.Tech programs in almost all disciplines and has also added new chapters in its glorious history i.e. MBA, MCA, M.Tech, M.Sc, M.A. (Mass Communication and Journalism), B.Sc Hons, BCA, BBA, B.Sc (Animation & Multimedia) and Ph.D.

## ABOUT THE PROGRAMME

Green technologies play an important role in focusing a nation's economic growth towards sustainability and provide an alternative socio-economic model that will enable present and future generations to live in a clean and healthy environment in harmony with nature. Green technology, also known as clean technology, refers to the development and extension of processes, practices, and applications that improve or replace the existing technologies facilitating society to meet their own needs while substantially decreasing the impact of human activities on the planet, and reducing environmental risks and ecological insecurities. The concepts of Green Technologies, if endorsed with a well-defined approach, may facilitate the aim of the Sustainable Development Goals of keeping the environment intact and improve it for the civilization to survive.

The Value Added Course on "Green Technologies and Environmental Sustainability" is focused on imparting the latest knowledge related to the green technologies which are becoming increasingly important for ensuring sustainability. This course will provide different perspectives of green technologies and recent advancements made towards sustainable development in various sectors.



**Value Added Course**  
*on*  
**Green Technologies**

*Sponsored by:*



*Organized by:*

**Department of Civil Engineering**

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

**7<sup>th</sup>-16<sup>th</sup> September, 2020**



## About, JCBUST YMCA

JCBUSTYMCA has been in existence for the past 50 years and consistently contributing towards engineering professionals and entrepreneurs. The competence of the University has been recognized by agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking among Universities in Haryana), etc. The Department of Civil Engineering at JCBUSTYMCA started in 2018 with an intake of 60 students. The Department is committed to provide the quality education in the area of civil engineering and transform students into graduates with high professional values. The department has also started Ph.D.

## About, Value Added Course

Need of Green Technologies is Immense. This learning experience is for participants who wish to learn about green technologies in the allied field of civil engineering. This value added course would enable participants to learn about green technologies, energy saving opportunities, water management, energy efficient building. Faculty members associated with delivery of this course have rich experience in related research aspects.

Different speakers will hold online sessions via Google Meet platform. The program is specifically designed for engineering students from university /Institute/Engg. College/ Polytechnic, participants should be from colleges/technical institutions authority.

## Speakers

**Dr Shiv Singh Rawat, SE  
Irrigation Dept.**

**Sh. Deepak  
Verma, Director  
Fbd**

**Sh. Ankur Mittal, NCB  
Faridabad**

**Dr Ayush Mittal  
REC Ambedkar**

**Dr. Vishal Puri  
JCBUST YMCA**

**Sh. Yogesh Morya  
JCBUST YMCA**

**Dr. Rajni Saggu  
JCBUST YMCA**

**Dr. Abhinash Mahanta  
AEC Assam**

## Student Coordinators

1. Neeraj 2. Satyam

## Participation

Note: There is no registration fee. E-certificates will be given to all participants based on their evaluation. Sessions will be held online via google meet platforms. Details of each session will be shared in a separate group.

Timings: 3.50pm – 6.50 pm.

**COORDINATOR**

**CHAIRPERSON**

**Two Week Value Added Course**  
*on*  
**Computer Aided Structural Design**

*Sponsored by:*



*Organized by:*

**Department of Civil Engineering**

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

**21<sup>st</sup>-31<sup>th</sup> July, 2020**



**Advisors**

1. Prof. Vikram Singh, TEQIP-III Director, JCBUST YMCA
2. Dr Manish Vashishath, TEQIP-III Coordinator, JCBUST YMCA

## About, JCBUST YMCA

JCBUSTYMCA has been in existence for the past 50 years and consistently contributing towards engineering professionals and entrepreneurs. The competence of the University has been recognized by agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking among Universities in Haryana), etc. The Department of Civil Engineering at JCBUSTYMCA started in 2018 with an intake of 60 students. The Department is committed to provide the quality education in the area and transform students into graduates with high professional values. The department has also started Ph.D.

## About, Value Added Course

Need of Software based Design and Analysis of Civil Engineering Structures is Immense. This learning "Computer Aided Structural Design" is for participants who wish to learn the different software based learning and applications of civil engineering. This value added course would enable participants to learn different software used in civil engineering domains such as Staad Pro, Autocad, Abaqus etc. Faculty/Industry members associated with this week value added course have rich experience in software based research aspects.

Different speakers will hold online sessions via Google Meet platform. The program is specifically for civil engineering students from university /Institute/Engg. College/ Polytechnic, participants should be from recognized colleges/technical institutions authority.

## Speakers

**Prof. (Dr.) M.L Aggarwal**  
JCBUST YMCA

**Sh. Ravi Makhija**  
Director, RVM CAD

**Dr. Krishan Kumar**  
JCBUST YMCA

**Dr Vinkel Arora**  
NIFTEM Sonapat

**Dr. Vishal Puri**  
JCBUST YMCA

**Sh. Yogesh Morya**  
JCBUST YMCA

**Dr. Rajni Saggu**  
JCBUST YMCA

**Dr. Abhinash Mahanta**  
AEC

## Student Coordinators

1. Bhavya Goel 2. Gurmeet 3. Neeraj 4. Satyam 5. Ritik

## Participation

Note: There is no registration fee. E-certificates will be given to all participants based on their evaluation. Sessions will be held online via google meet platforms. Details of each session will be shared in the WhatsApp group.

Timings: 3.00pm - 5.40 pm.

**COORDINATOR**

**Dr. Vishal Puri**

**CHAIRPERSON**

## Chief Patron



**Prof. Dinesh Kumar**  
Hon'ble Vice Chancellor  
J.C. Bose University of Sci. & Tech.,  
YMCA, Faridabad

## Patron



**Dr. Sunil Kumar Garg**  
Registrar  
J.C. Bose University of Sci. & Tech.,  
YMCA, Faridabad

## Convenors



**Dr. Anuradha Sharma**  
Chairperson (Physics)  
J.C. Bose UST,  
YMCA, Faridabad

## Programme Coordinators

**Dr. Parmod Kumar & Dr. Yogita**  
Department of Physics

## Faculty Coordinators

**Dr. Sonia Bansal**, Physics  
**Dr. M.K. Yadav**, Physics  
**Dr. Arun Kumar**, Physics  
**Mr. Ompal Singh**, Physics  
**Ms. Shweta**, Physics

**Dr. Maneesha Garg**, Physics  
**Dr. Parveen Goyal**, Physics  
**Dr. Kaushal Kumar**, Physics  
**Ms. Arti Rajpal**, Physics

## Student Coordinators

**Team PRAGYANAM**, Physics

**One Week Online  
Value Added Course**

on

# **SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS – 2020 (SCNM - 2020)**

**02<sup>nd</sup> – 07<sup>th</sup> November, 2020**



**Organized by  
Department of Physics**

**J.C. Bose University of Science and  
Technology, YMCA, Faridabad-121006  
([www.jcboseust.ac.in](http://www.jcboseust.ac.in))**

## About the University

J. C. Bose University of Science and Technology, YMCA, Faridabad (erstwhile YMCA University of Science and Technology, Faridabad) established in the year 1969, as an Indo-German project with an aim to impart technical education to developing India on German pattern.

The labs & workshops have been setup with the assistance of German expertise. In 1996, State Govt. of Haryana took complete control of the Institute and upgraded it to University status in December 2009. The university offers 4-year B.Tech. degree course in various disciplines like Civil Engineering, Computer Science, Information Technology, Electronics & Communication Engineering, Electrical Engineering, Mechanical Engineering; M.B.A., M.C.A, M.Tech. (Computer Engineering, Electrical Engineering, Electronics Engineering & Mechanical Engineering); M.Sc. (Physics, Maths, Chemistry & Environmental Sciences); M.A.(Mass Communication and Journalism); B.Sc. (Physics, Chemistry, Mathematics) and Ph..D. in all these disciplines.

The University is situated on National Highway-2, Mathura Road, 30 km from National Capital, Delhi. The University campus is located in the sprawling Faridabad-Ballabgarh Industrial complex.

## Broad Objectives of the VAC

The broad objectives of the value added course can be bulleted as:

- Basics of nanomaterials
- Synthesis of nanomaterials and thin films
- Characterization of nanomaterials and thin films
- Simulations and Modeling of nanomaterials.
- Applications of nanomaterials and thin films.
- State of Art of advanced and hybrid nanomaterials

## Contact Details

**Dr. Parmod Kumar**, Coordinator

Email:[parmodphysics@gmail.com](mailto:parmodphysics@gmail.com), Mobile: +91-9971035119

**Dr. Yogita**, Coordinator

Email:[ybatraiuac@gmail.com](mailto:ybatraiuac@gmail.com), Mobile: +91-9910046111

## Key speakers of the VAC (SCNM -2020)



**Prof. Neeraj Khare**  
IIT Delhi



**Dr. Anurag Gaur**  
NIT Kurukshetra



**Prof. Pawan S. Rana**  
DCRUST, Murthal



**Dr. Ashish Kumar**  
IUAC, Delhi



**Prof. Satish Khasa**  
DCRUST, Murthal



**Prof. Kantesh Balani**  
IIT Kanpur



**Prof. Ashish Agarwal**  
GJUST, Hisar



**Dr. Abhinav Pratap Singh**  
NIT Jalandhar



**Dr. Rajendra S. Dhaka**  
IIT Delhi



**Prof. S. Annapoorni**  
University Of Delhi



**Dr. Yashpal S. Kattharia**  
IIIT Jabalpur



**Prof. Sujeet Chaudhary**  
IIT Delhi

## Registration

*Last date of apply is 31<sup>st</sup> October, 2020*

The value added course is completely free for participants from government institutions, universities, colleges & government aided colleges, industry etc. E-certificates will be given after successful completion of the course. The interested candidates may register themselves (last date is 31<sup>st</sup> October, 2020) via the following link:

[https://docs.google.com/forms/d/e/1FAIpQLScgPoUqOvGMBXIVb1NmClk2aZW1QmM2ruqTTe06ry10kDVBO/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLScgPoUqOvGMBXIVb1NmClk2aZW1QmM2ruqTTe06ry10kDVBO/viewform?usp=sf_link)

## About the University

J.C. Bose University of Science & Technology, YMCA, Faridabad was established by an Act of Legislature of State of Haryana (Act 21 of 2009) by upgrading erstwhile YMCA Institute of Engineering, Faridabad to facilitate and promote the studies and research in emergent areas of higher education with focus on new frontiers of Science, Engineering & Technology, Management Studies, non-conventional energy resources and environmental studies, and also to achieve excellence in these and connected fields. Before the University came into being, it was started in 1969 as an Indo-German project with an aim to impart technical education and started offering diploma courses with intake of 120 students. It started offering B.Tech. Course from the session 1996-97 with annual intake of 240 students. Subsequently, the YMCA Institute of Engg., Faridabad has been upgraded into a leading, teaching-cum-affiliating State University to facilitate and promote studies and research in UG/PG courses which were subsequently added. It is recently accredited by national Assessments and Accreditation Council (NAAC) and awarded "A grade". Further, it is ranked no. 1 among State Govt. Engineering Institutions by national Institutions Ranking Framework (NIRF) in 2017. The university also holds top 10 ranking institutes on NPTEL since last two years. The university offers B.Tech courses in eight discipline namely, Civil, Informational Technology, Computers, Electronic and communication, Electronics Instrumentation Control, ECC, Mechanical and Electrical. The university offers post graduate degree like M.Tech., M.Sc., MBA, MCA and Ph.D. There are many Undergraduate courses (B.Sc. in Mathematics, Physics, Chemistry and Animation, BA in Journalism and mass communication, BCA and BBA) newly run by the University.

## About the Department

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 application 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, Queuing Theory, Numerical Analysis, Reliability Theory, Operations Research.

### Chief Patron:

**Prof. Dinesh Kumar**  
Hon'ble Vice Chancellor  
J. C. Bose University of Science and Technology,  
YMCA Faridabad, Haryana

### Patron:

**Dr. Sunil Kumar Garg**

Registrar  
J. C. Bose University of Science and Technology,  
YMCA Faridabad, Haryana

### Advisory Committee:

**Prof. Vikram Singh**, Director, TEQIP-III  
**Prof. Ashutosh Dixit**, Dean, Faculty of Sciences  
**Prof. Munish Vashishath**, Co-ordinator, TEQIP-III

### Programme Chair and Convener(s):

**Prof. Komal Kumar Bhatia**, Chairperson,  
Department of Computer Engineering  
**Dr. Neetu Gupta**, Associate Professor & Chairperson,  
Department of Mathematics

### Coordinator :

**Dr. Suraj Goyal**, Assistant Professor, Department of Mathematics

### Secretary(s):

**Ms. Nisha Singh**, Assistant Professor, Department of Mathematics  
**Mr. Abhishek**, Assistant Professor, Department of Mathematics  
**Organising Committee: (Department of Mathematics)**

**Dr. Reena Garg**, Assistant Professor  
**Dr. Aprita Chatterjee**, Assistant Professor  
**Dr. Ramu Dubey**, Assistant Professor  
**Ms. Hemlata**, Assistant Professor  
**Dr. Pooja Gupta**, Assistant Professor  
**Dr. Shubham Jaiswal**, Assistant Professor  
**Mr. Kuldeep Singh**, Assistant Professor

### Resource Person:

**Dr Arun Kumar (AK)**  
Assistant Professor  
Department of Mathematics,  
IIT Ropar, Rupnagar

**Dr Anuj Sharma (AS)**  
Assistant Professor  
Department of Computer Science  
& Applications  
Panjab University, Chandigarh

**Dr Jitender Singh (JS)**  
Assistant Professor  
Department of Mathematics  
Guru Nanak Dev University,  
Amritsar

**Er. Akhilesh Kumar (AKK)**  
Assistant Manager  
Application Engineer- MathWorks  
Design Tech Systems Pvt Ltd, New Delhi

**Dr Munish Kansal (MK)**  
Assistant Professor  
School of Mathematics  
Thapar Institute of Engineering  
and Technology, Patiala

**Dr Sanjeev Kumar Sharma (SKS)**  
Assistant Professor  
Department of Computer Science  
and Applications  
DAV University, Jalandhar



**J.C BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, YMCA, FARIDABAD**  
(A Haryana State Government University)  
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NH- 2, SECTOR-6, MATHURA ROAD, FARIDABAD

**VALUE ADDED COURSE  
A TWO WEEK WORKSHOP**

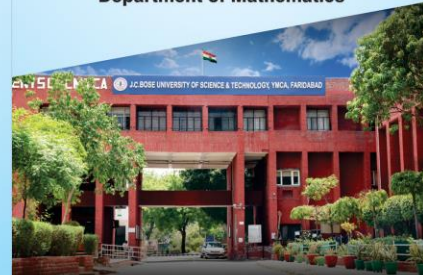
**ON  
SCIENTIFIC COMPUTING USING  
MATLAB & PYTHON  
SCMP – 2020**

**(Sep. 07 – 18, 2020)**

Under the aegis of

**TEQIP 3**

Jointly Organised by  
**Department of Computer Engineering  
&  
Department of Mathematics**



[jcboseust.ac.in](http://jcboseust.ac.in) [Twitter](#) [Facebook](#) [LinkedIn](#) /JCBoseUST

## Course Objective

MATLAB and PYTHON are increasingly important in all aspects of science and engineering. The course is designed to provide Basic knowledge of Python and MATLAB.

**Python** programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.

The main objectives for python include:

- Teach an example of scripting and interpretative language and compare it with classical compiled programming languages.
- Introduce the learner to Python programming fundamentals
- Expose learners to application development and prototyping using Python
- Learn to apply fundamental problem solving techniques.

**MATLAB** is probably the most commonly used scientific and engineering numerical software.

The course provides a gentle introduction to the MATLAB computing environment, and is intended for beginning users. It is designed to give students a basic understanding of MATLAB, including popular toolboxes. The course consists of interactive lectures. The main objectives are:

- Understanding the MATLAB environment
- Being able to do simple calculations using MATLAB
- Being able to carry out simple numerical computations and analyses using MATLAB

## MOTIVATION FOR THE WORKSHOP

Open Source Software brings many compelling benefits to our country which is a developing nation with an enormous potential. Python and MATLAB can be used for:

- Text Mining Web Services Scientific Applications System Administration GUI Programming Database Applications Game development Natural Language Processing.
- The Workshop on Practical Python and MATLAB aims to promote awareness and disseminate the use and development of open source software for researchers, faculty, students and community by hands-on programming with Python and MATLAB.

## Course Contents

### PYTHON

- ❖ Introduction to Python Language, Python Data Types and Input Output.
- ❖ Python Functions and Modules.
- ❖ Understanding of Computer Science and Programming Languages.
- ❖ Python Class and Objects.
- ❖ File Handling.
- ❖ Symbolic Computation in Python.
- ❖ Introduction to the NumPy Library
- ❖ 2D and 3D Plotting in Python.
- ❖ Advanced features of Python.
- ❖ Matrix Decompositions
- ❖ Matrix Decompositions and Applications.
- ❖ Python syntax and use.
- ❖ Machine Learning using Python-I.
- ❖ Machine Learning using Python-II

### MATLAB

- ❖ Overview of MATLAB, Brief History of MATLAB, Working with MATLAB Variables and Expressions, 2 D & 3D Plots, Combining Multiple Plots & Annotation, Writing Live Script and exporting data to files.
- ❖ Basic Arithmetic in MATLAB, Graphics in MATLAB, MATLAB Programming, Some Mathematical approximations using MATLAB, Solving IVPs in ODEs using MATLAB.
- ❖ System Modelling with Simulink, What is Simulink? Creating Models in Simulink Hardware Interfacing with Simulink Loading and Logging Data in Simulink.
- ❖ Mathematical Modelling with MATLAB, Data Pre-Processing with in MATLAB, Mathematical Modelling of Data. Demo: Fitting Data using Ridge and Lasso
- ❖ Introduction to Optimization Techniques.
- ❖ Machine Learning with MATLAB, Types of Machine Learning, Supervised and Unsupervised Machine Learning
- ❖ Deep Learning with MATLAB, What is Deep Learning?
- ❖ Review of MATLAB basics, IVT and Bisection method, Newton's and Secant method for solving nonlinear scalar equations, Fixed-point iteration method: Implementation of convergence conditions, LU decomposition and Gauss elimination method for solving systems of linear equations

## Important Dates

Last date for registration : September 5th, 2020

Inauguration of Value added course : September 7th, 2020

Valedictory of Value added course: September 18th, 2020

### Eligibility

The value added course is interdisciplinary and is open for UG, PG Students, Research Scholars and Faculty members of all departments of Sciences, Engineering, Management and Humanities approved under AICTE, UGC and autonomous bodies.

FEE: There is no registration fee for this value added course.

Registration  
**VALUE ADDED COURSE "A TWO WEEK WORKSHOP  
ON SCIENTIFIC COMPUTING USING  
MATLAB & PYTHON" SCMP – 2020  
(Sep. 07 - 18, 2020)**

Use the link: <https://forms.gle/kwfkVt7JyosLd5D2A>  
**No Registration Charges.**  
**Last date of Registration Sep. 05, 2020 by 8:00PM**

### Platform: ZOOM Meetings

E-Certificate will be provided after the completion of the value added course.

\*E-certificates will be issued only to registered candidates with full attendance. Limited to 500 participants only.

For any queries, contact

**Dr. Suraj Goyal**

(Coordinator, SCPM-2020)

Assistant Professor, Department of Mathematics, J.C. Bose

University of Science and Technology, YMCA, Faridabad

Email: scmp2020ymca@gmail.com

Mob. (+91) 9417728292

**Ms. Nisha Singh**

(Secretary, SCPM-2020)

Assistant Professor, Department of Mathematics, J. C. Bose

University of Science and Technology, YMCA, Faridabad

Mob. (+91) 9050698768

**Mr. Abhishek**

(Secretary, SCPM-2020)

Assistant Professor, Department of Mathematics, J. C. Bose

University of Science and Technology, YMCA, Faridabad

Mob. (+91) 9873893198

Value Added Course

# INDUSTRIAL METAL JOINING TECHNOLOGIES

## Course Objective

- Get insight of latest metal joining techniques used in industries
- Emphasize on material specific issues and applications of Welding and Allied Processes

## Course Coverage

Overview of Welding Processes & Materials  
Modern Welding Power Sources  
Welding Techniques and Emerging Trends  
Advancements in Fusion and Solid State  
Welding of specific metals and alloys  
Welding of Dissimilar metals and non-metals  
Surfacing, Spraying and its application  
Friction Stir Welding / Processing  
Welding hazards and Safety

## Note

- Duration 30-35 hours
- For Odd semester, 2020-21
- Flexible Time Table
- Certificate on completion
- No fee, No credits, No exam
- Open for all students of the University

## Skill Set Gain / Employability Opportunity

Participant will get in-depth knowledge of advancement in the field of metal joining and application of latest welding and allied processes in joining specific/dissimilar materials.

Welding and allied processes are no doubt the essential part of many important industries e.g. automobile, railways, aviation, shipbuilding, petroleum and more.

## Course Coordinators

Dr. Hari Om  
Professor (Mechanical Engineering)  
Email: hari.ohm0408@gmail.com  
Mobile: 9818219940

Dr. Rajeev Saha  
Asst. Prof. (Mechanical Engineering)  
Email: rajeevsaha@gmail.com  
Mobile: 9911921584



**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
(formerly YMCA University of Science and Technology)

A State Govt. University established wide State Legislative Act. No. 21 of 2009

SECTOR-6, FARIDABAD, HARYANA-121006

Website: [www.jcboseust.ac.in](http://www.jcboseust.ac.in)



## Aim and objective of the course

As Cloud Computing is considered one of the top five emerging technologies that will have a major impact on the quality of science and society over next 20 years, the objectives of this course are

1. To provide comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture and applications by introducing and researching state-of-the-art in Cloud Computing fundamental issues, technologies, applications and implementations.
2. To acquaint participants to centralize the setup, implementation, maintenance, and management of integrated computation services to individual and corporate end users.
3. To expose the participants to frontier areas of Cloud Computing and Information Systems, while providing sufficient foundations to enable further study and research.

## About J. C. Bose University of Science and Technology, YMCA

J.C. Bose University of Science and Technology, YMCA, formerly known as YMCA University of Science and Technology, has exerted a great deal of effort to promote the Technical Education in the State and the Country at large over the past five decades since its inception as an IndoGerman project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further

create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project and RUSA Scheme of MHRD, Govt. of India. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, our students are well accepted by the industries. The University offers B.Tech programs in almost all disciplines and has also added new chapters in its glorious history i.e. MBA, MCA, M.Tech, M.Sc, M.A. (Mass Communication and Journalism), B.ScHons, BCA, BBA, B.Sc (Animation & Multimedia) and Ph.D.



## About Department of Computer Engineering

The Department of Computer Engineering aims to promote academic growth by offering high quality UG, PG and Doctoral programmes. The department established in 1991, currently offers B.Tech courses in CE & IT and master courses in CE, IT, CN. The doctoral programme was started in 2010. The Department has well trained and research oriented faculty members. The department has modern and state of the art laboratories.

## About Department of Computer Applications

The Computer applications Department aims to make a place at both national and international level by producing high quality ethically rich computer application engineers conversant with the state-of-the-art technology with the ability to adapt the upcoming challenges in information technologies and their applications to cater to the ever changing industrial and societal needs. It is committed to provide a supportive, friendly and challenging learning and research environment. The department offers BCA, B.Sc. (Animation & multimedia) and Master of Computer Applications programs.

## About TEQIP 3

Technical Education Quality Improvement Programme (TEQIP) of Govt. of India is being implemented as a worldbank project to improve the quality of technical education system in the country. The third phase of this project, TEQIP-III is a 4 year Central Sector Scheme of MHRD for the duration 2017-2021. The objectives of this project are to improve efficiency and effectiveness of the technical education management system in the states and institutions selected under the programme and support development plans. The University has received TEQIP grant under sub-component 1.3 with a Project fund of Rupees 7 Crore.

**Value Added Course**  
*on*  
**Universal Human Values**

*Sponsored by:*



*Organized by:*

**Department of Civil Engineering**

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

**January 25- February 26, 2021**



## About, JCBUST YMCA

JCBUSTYMCA has been in existence for the past 50 years and consistently contributing towards engineering professionals and entrepreneurs. The competence of the University has been recognized by agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking among Universities in Haryana), etc. The Department of Civil Engineering at JCBUSTYMCA started in 2018 with an intake of 60 students. The Department is committed to provide the quality education in the area and transform students into graduates with high professional values. The department has also started Ph.D.

## About, Value Added Course

Need of Universal Human Values for engineers is Immense. The future of humanity depends on the attitude by current generation. Not enough attention has been given to develop a person as a whole. The contents of AICTE scheme of the value added course. It provides exposures to comprehensive Values, thus enabling engineers to sail through conflicts arising due to arguments, reasoning from people. Different speakers will hold online sessions via Google Meet platform. The program is specifically for students from university /Institute/Engg. College.

## Faculty

Dr Rajni Saggu, JCBUST YMCA

Sh. Vivek Rawat

Dr N.K. Tiwary

## Student Coordinators

1. Sahil 2. Surbhi 3. Ajay Yadav

## Participation

Note: There is no registration fee. E-certificates will be given to all participants based on evaluation. Sessions will be held online via Google Meet platforms. Maximum participants per session will be shared in group. For joining or query, email- [rajnirupal@gmail.com](mailto:rajnirupal@gmail.com).

Timings: 4.00 pm – 5.20 pm.

### COORDINATOR

**Dr Rajni Saggu**  
Assistant Professor  
Department of Civil Engineering,  
JCBUST YMCA Faridabad, INDIA,  
Email – [rajnirupal@gmail.com](mailto:rajnirupal@gmail.com)

### CHAIRPERSON

**Prof. (Dr.)**  
Department  
JCBUST

**Value Added Course**  
*on*  
**Human Values and Professional Ethics**

*Sponsored by:*



*Organized by:*

**Department of Civil Engineering**

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

**January 25- February 26, 2021**



## About, JCBUST YMCA

JCBUSTYMCA has been in existence for the past 50 years and consistently contributing towards engineering professionals and entrepreneurs. The competence of the University has been recognized by agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking among Universities in Haryana), etc. The Department of Civil Engineering at JCBUSTYMCA started in 2018 with an intake of 60 students. The Department is committed to provide the quality education in the area and transform students into graduates with high professional values. The department has also started Ph.D.

## About, Value Added Course

Need of Human Values and Professional Ethics for engineers is Immense. It requires a comprehensive understanding of Human Values and professional ethics, thus enabling engineers to deal with the challenges arising due to arguments, reasoning from people agencies involved. There is a need to be more careful, efficient in job, family life, social environment and interactions. This value added course would enable students to understand different aspects of human values and professional ethics.

Different speakers will hold online sessions via Google Meet platform. The program is specifically designed for students from university /Institute/Engg. College.

## Faculty

**Dr M.L. Aggarwal, JCBUST YMCA**  
Dr Rajni Saggu, JCBUST YMCA

Sh. Vivek Rawat

Dr N.K. Tiwary

## Student Coordinators

1. Sahil 2. Surbhi 3. Ajay Yadav

## Participation

Note: There is no registration fee. E-certificates will be given to all participants based on their evaluation. Sessions will be held online via Google Meet platforms. Maximum participants per session will be shared in group. For joining or query, email- [rajnirupal@gmail.com](mailto:rajnirupal@gmail.com).

Timings: 5.25 pm – 6.45 pm.

### COORDINATOR

**Dr Rajni Saggu**  
Assistant Professor  
Department of Civil Engineering,  
JCBUST YMCA Faridabad, INDIA,  
Email – [rajnirupal@gmail.com](mailto:rajnirupal@gmail.com)

### CHAIRPERSON

**Prof. (Dr.)**  
Department of  
JCBUST YMCA



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

**NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)**

## **DEPARTMENT OF ELECTRICAL ENGINEERING CONDUCTING**

**Value Added  
Course  
on  
“AutoCAD”  
Session (July-Dec 2020)**



**Chairperson**

**Coordinator**

**Resource Person**

**Dr. Poonam Singhal  
Chairperson (EL)  
JC Bose UST, YMCA**

**Ms. Shipra Jain  
Assistant Professor  
Electrical Engg**

**Dr. Bhaskar Nagar  
Assistant Professor  
Mechanical Engg.**

**Certificates will be provided on successful completion  
of the course**



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

**NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)**

## **DEPARTMENT OF ELECTRICAL ENGINEERING CONDUCTING**

# **Value Added Course on MATLAB™ Session (July-Dec 2020)**

**Chairperson**

**Coordinator**

**Dr. Poonam Singhal**  
Chairperson (EL)  
JC Bose UST, YMCA

**Ms. Shipra Jain**  
Assistant Professor  
Electrical Engg

**Certificates will be provided on successful completion  
of the course**



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

**NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)**

## **DEPARTMENT OF ELECTRICAL ENGINEERING CONDUCTING**

**Classes will start from 21<sup>st</sup> December 2020**



## **Value Added Course on “Programming in C++”**

**Chairperson**

**Dr. Poonam Singhal  
Chairperson (EL)  
JC BoseUST, YMCA**

**Coordinator**

**Ms. Shipra Jain  
Assistant Professor  
Electrical Engg**

**Certificates will be provided on successful completion  
of the course**

**Registration Link -**

**<https://docs.google.com/forms/d/e/1FAIpQLSfhVm2KEuwJthA3ZQ3FXwWD8eYu5ts1PW9SLuHycxE9sr1l3Q/viewform>**



**J.C. Bose University of Science & Technology,  
YMCA, Faridabad**  
NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)

## **DEPARTMENT OF ELECTRICAL ENGINEERING CONDUCTING**

Classes will start from 09 January 2021

# **Value Added Course on “Simulation using LTspice”**

**Chairperson**

**Dr. Poonam Singhal**  
Chairperson (EL)  
JC Bose UST, YMCA

**Coordinator**

**Ms. Shipra Jain**  
Assistant Professor  
Electrical Engg

**Certificates will be provided on successful completion  
of the course**

Registration Link -

[https://docs.google.com/forms/d/e/1FAIpQLScPxUS0rqueUY\\_X\\_V8l\\_bplSqA86ikMLfszUC2vkucPrZcXQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLScPxUS0rqueUY_X_V8l_bplSqA86ikMLfszUC2vkucPrZcXQ/viewform)



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

**NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)**

## **DEPARTMENT OF ELECTRICAL ENGINEERING CONDUCTING**

Registration will start from 27 January 2021

Classes will start from 1<sup>st</sup> February 2021

**Value Added Course  
on**

# **“Human Values and Professional Ethics”**

**Chairperson**

**Dr. Poonam Singhal**  
Chairperson (EL)  
JC Bose UST, YMCA

**Coordinator**

**Shipra Jain**  
Assistant Professor  
Electrical Engg

**Certificates will be provided on successful completion  
of the course**

Registration Link -

[https://docs.google.com/forms/d/e/1FAIpQLScVoFu3we\\_aAMSu4MAMyqgMdWm\\_w9ccdFB2qb8LSp7ItR0lOg/viewform](https://docs.google.com/forms/d/e/1FAIpQLScVoFu3we_aAMSu4MAMyqgMdWm_w9ccdFB2qb8LSp7ItR0lOg/viewform)

J. C. Bose University of Science and Technology,  
YMCA, Faridabad

(A Haryana State Government University)

Accredited 'A' Grade By NAAC

Department of Management Studies



# #Value Added Course on Salesforce- JR-P

**Aug–Oct 2020**

## CONTENTS

- Trailhead Basics
- Impacts of the Fourth Industrial Revolution
- Trailhead Playground Management
- Salesforce User Basics
- Lightning Experience Basics
- Einstein Analytics Basics
- Community Cloud Basics
- Service Cloud for Lightning Experience
- Project: Set Up Case Escalation and Entitlements
- Data Security
- Data Quality
- Data Management
- Data Modeling
- Marketing Cloud Basics
- Salesforce Einstein Basics
- Lightning Experience Customization
- Salesforce Mobile App Basics
- Entitlement Management
- Create Reports and Dashboards for Sales and Marketing Managers
- Project: Customize an Org to Support a New Business Unit

## PROGRAM OUTCOMES

- Participants will get exposure to key disciplines and skills needed to fulfil the role of a Salesforce Administrator.
- Participants will get exposure to real-world problems.
- Participants will be eligible to attend Career Fair by Salesforce.

**For Registration:**

**Last date 28<sup>th</sup> July 2020 (12 noon)**

**Maximum Seats=50 (on Merit Basis)**



**Mentor/Coordinator**

**Dr. Sapna Taneja<sup>25</sup>**

# Expert Lectures By



**Prof. (Dr.) Umesh Arya,  
GJU Hisar**

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***“STRIVE NOT TO BE A  
SUCCESS, BUT RATHER TO  
BE OF VALUE.” ---Albert  
Einstein***

---



## Coordinators

Dr. Manisha Goel  
Dr. Anushree Chauhan

## Contact Us

+91-9971893518, +91-9871881788  
singla\_manisha@rediffmail.com  
anushree27973@gmail.com



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

**Department of Management  
Studies**



*Value Added Course*

## **Work Life Balance**

**Oct-Nov 2020**



J.C. Bose University of Science and Technology  
YMCA Faridabad

(A Haryana State Government University)



One Week Online Value Added Course

# 'Analytical Tools and Techniques in Environmental Research'

(22<sup>nd</sup>-26<sup>th</sup> February 2021)

Organized by  
Department of Environmental Sciences, JC Bose UST,  
YMCA, Faridabad

in *association with*  
Advanced Instrumentation Research Facility(AIRF), JNU,  
New Delhi

Registration Link: <https://forms.gle/SUGKHCI76Ys6E4yA9>

*Ante*  
8<sup>th</sup> May 2021

*RpG*  
8/3/2021



# J.C. Bose University of Science and Technology YMCA Faridabad

(A Haryana State Government University)

One Week Online Value Added Course  
(22<sup>nd</sup>-26<sup>th</sup> February 2021)



## 'Analytical Tools and Techniques in Environmental Research' (ATTER-2021)

PRESIDED BY



Prof. Dinesh Kumar  
Hon'ble Vice Chancellor,  
JCBoseUST, YMCA

### *Inaugurat Ceremony*

22<sup>nd</sup> February 2021 | Time: 10:00 am

[meet.google.com/jyt-msos-qba](https://meet.google.com/jyt-msos-qba)

GUEST OF HONOUR



Prof. Sarita Sachdeva,  
Executive Director & Dean  
Research, MRIIRS, Faridabad



Dr. Shailja Singh  
Director, AIRF, JNU, New  
Delhi

Organized by  
Department of Environmental Sciences,  
JC Bose UST, YMCA, Faridabad  
in association with AIRF, JNU, New Delhi

*Ante*  
8<sup>th</sup> Nov 2021

*RCPG*  
8/3/2021

## About Value Added Course (VAC) - ATTER-2021

The objective of VAC is to enhance the skills and abilities of students in data analysis tools like MS Excel and advanced instrumental techniques like SEM, PPMS, GC-MS, FTIR etc. The following topics will be covered during one week online VAC:

- Tools and Techniques to assess genotoxicity of Environmental pollutants.
- Green plants and Climate Change: Analytical tools and techniques
- GC, GCMS: Techniques & its Application
- SEM & FESM: Technique & its Application
- Analyzing Scientific Data Using EXCEL
- Statistical Measures, Lookup Functions
- Optimization ( Linear and Programming problems)
- PPMS and AFM: Technique & Its Application
- FTIR: Techniques & its Application
- Basics of Excel, Data Filters
- Data Analysis Tools, Data Validation, Solver

### Resource Persons:

- Dr. Shailja Singh, Director, AIRF & Associate Prof., Special Centre for Molecular Medicine, JNU, New Delhi
- Dr. Usha Mina, Associate Director AIRF & Associate Prof., School of Environmental Sc., JNU, New Delhi.
- Dr. Ajay Kumar, AIRF, JNU, New Delhi
- Dr. Ruchita Pal, Sr. Technical Asst., AIRF, JNU, New Delhi
- Dr. Prabhat Mittal, Associate Professor, Satyawati College, Delhi University
- Ms. Kamakshi Mehta, CA and Assistant Professor, Amity University, Gurugram
- Dr. Saroj K. Jha, Technical officer, AIRF, JNU
- Dr. Manoj P Singh, AIRF, JNU, New Delhi

*Ant*  
8<sup>th</sup> Mar 2021

*DCP*



## One Week Online Value Added Course

(22<sup>nd</sup>-26<sup>th</sup> February 2021)

# 'Analytical Tools and Techniques in Environmental Research' (ATTER-2021)

### Patron:

Prof. Dinesh Kumar  
Hon'ble Vice Chancellor,  
JCBoseUST, YMCA

### Program Convener:

Dr. Renuka Gupta  
Chairperson, Dept. of Environmental Sciences,  
JCBoseUST, YMCA

### Co-Patron:

Dr. Sunil Kumar Garg  
Registrar, JCBoseUST, YMCA

### Program Coordinators:

Dr. Anita Girdhar  
Assistant Professor, Dept. of Environmental Sciences,  
JCBoseUST, YMCA

### Program Advisor:

Prof. Ashutosh Dixit  
Dean, Faculty of Sciences, JCBoseUST, YMCA

### Dr. Somvir Bajar

Assistant Professor, Dept. of Environmental Sciences,  
JCBoseUST, YMCA

### Organizing Team

Dr. Smita, Assistant Professor

Dr. Navish Kataria, Assistant Professor

### Research Scholars

Ms. Monika Mago  
Ms. Heena Chauhan  
Ms. Shefali Upadhyay  
Ms. Himani Seharwal  
Mr. Manjeet  
Ms. Anjali  
Ms. Kajal Saini  
Ms. Divya Bhushan  
Ms. Neha Yadav

### MSc EVS Students

Mr. Mayank  
Mr. Nikhil Choudhary  
Ms. Vaishali Saini  
Ms. Aastha Chauhan  
Ms. Sambhavi & Ms. Kriti

Contact us:  
9811058215,  
8950000270

*Ante*  
8<sup>th</sup> Mar 2021

*RpG*



J. C. Bose University of Science and  
Technology, YMCA, Faridabad

(A Haryana State Government University)

Accredited 'A' Grade By NAAC

DEPARTMENT OF ELECTRONICS ENGINEERING

# Value Added E-Course

## AI Skill Enhancement

### Engineer's Day

**15<sup>th</sup> Sep. - 30<sup>th</sup> Nov. 2020**

This basic course on AI organized for 7th Sem ECE and EIC B.Tech students aims on running Hands on module for AI and Machine Learning. The lectures series of 30hrs will be taken by faculty members of CEERI PILANI And BENNETT University.

*"Skilled Innovative Youth is the  
Powerhouse which would make  
India Lead the 21<sup>st</sup> Century"*

- Prof. Dinesh Kumar,  
(Hon'ble Vice Chancellor,  
JCBUST)



Make **Enhancement** to  
**LEAD**



# **INAUGURATION PROGRAM** #ValueAdded E-Course **AI Skill Enhancement**

**15<sup>th</sup> Sep. - 30<sup>th</sup> Nov. 2020**

## **INAUGURATION PROGRAM SCHEDULE**

4:00 PM- 4:05 PM – Welcome by Coordinators

4:05 PM- 4:10 PM – Introduction of Program by Chairperson

4:10 PM- 4:15 PM – Address note by Dean FET

4:15 PM- 4:25 PM – Address by Hon'ble Vice Chancellor Sir

4:25 PM- 4:30PM – Concluding Remarks followed by Expert  
Lecture

Lecture timings will be 4-6pm

(Alternate days classes/3 classes per week)

### **Patron:**

Prof. Dinesh Kumar  
Hon'ble Vice-Chancellor

### **Co-Patron:**

Prof. Sunil K. Garg  
Registrar

### **Program Chair**

Dr. Neelam Turk  
Chairperson EE Deptt.

### **Advisory Committee**

Prof. M. L. Agarwal  
Prof. S. K. Agarwal  
Prof. Munish Vashishath  
Dr. Pradeep Dimri

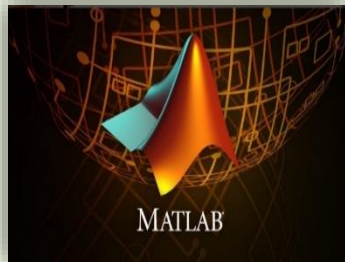
### **Coordinators**

Ms. Rashmi Chawla  
Dr. Sheilza Jain



## Value Added Course

on  
“**MATLAB**  
**WITH HANDS ON TRAINING**”  
(18 January- 5 February 2021)



Organized by  
**Department of  
Electronics Engineering**



**J.C. Bose University of Science and  
Technology, YMCA, Faridabad**  
(A Haryana State Government University)  
**Accredited ‘A’ Grade by NAAC**  
**NH-2, Sector 6, Mathura Road,  
Faridabad, 121006 (Haryana)**

### PATRON

**Prof. (Dr.) Dinesh Kumar**

Vice Chancellor  
J.C. Bose University of Science and Technology,  
YMCA, Faridabad

### CO-PATRON

**Dr. Sunil Kumar Garg**

Registrar  
J.C. Bose University of Science and Technology,  
YMCA, Faridabad

### PROGRAMME CHAIR

**Prof. (Dr.) Neelam Turk**

Chairperson  
Department of Electronics Engineering  
J.C. Bose University of Science and Technology,  
YMCA, Faridabad

### ADVISORY COMMITTEE

**Prof. Tilak Raj**

Dean Institution, J. C. Bose UST, YMCA

**Prof. M.L. Aggarwal**

Dean FET, J. C. Bose UST, YMCA

**Prof. S.K. Agarwal**

Electronics Engg. Deptt., J. C. Bose UST, YMCA

**Prof. Munish Vashishath**

Electronics Engg. Deptt., J. C. Bose UST, YMCA

**Prof. Pradeep Kumar**

Electronics Engg. Deptt., J. C. Bose UST, YMCA

**Dr. Shailender Gupta**

Electronics Engg. Deptt., J. C. Bose UST, YMCA

### PROGRAMME CORDINATOR

**Ms. Manju Kumari**

Assistant Professor  
Department of Electronics Engineering  
J.C. Bose University of Science and Technology,  
YMCA, Faridabad

## Address for Correspondence

**Ms. Manju Kumari (9891659175)**  
Department of Electronics Engineering  
J.C. Bose University of Science and  
Technology, YMCA, Faridabad

Email id : [matlabvac@gmail.com](mailto:matlabvac@gmail.com)

Office contact No: 0129-2310110

## Important dates and details

### Duration:

40 Hours (18 January to 5 February 2021)

### Last date for Registration:

17 January 2021

### Venue:

ZOOM Platform (Details will be shared,  
Participants are requested to install ZOOM  
platform or App)

### Course Fee:

No registration fee for participation. E-  
Certificates will be given to all the participants  
on successful completion of the course.

### Registration Form Link:

<https://forms.gle/dg1GxshwZcEj63Up6>

## About JCBUST, Faridabad

J.C.Bose University of Science and Technology has been in existence for the past 48 years and consistently been contributing towards creation of competent engineering professionals and entrepreneurs. An Institution that had a humble beginning as a post diploma institution and famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana), etc.

The University offers B.Tech Degree courses in Electronics and Communication Engg, Instrumentation and Control Engg., Computer Engg, Information technology, Electrical Engg., Mechanical Engg. and Civil Engineering.

The university has also added new chapters in its glorious history i.e BBA, MBA, BCA, MCA, M.Tech, B.Sc., M.Sc. (Physics, Maths, Chemistry & Environmental Sciences), M.A. (Mass Communication and Journalism) and Ph.D in various disciplines.

Moving ahead on the path of excellence, the University is ready to effectively take up the forthcoming challenges in diversified domains. To accomplish this, new courses are being added and new facilities are being developed on continuous basis. Inculcation of ethical and moral values among youth is one of our prime concerns.

## About the Department

The Department of Electronics Engineering is committed to impart technical education in most

efficient manner to its students. It was established in year 2012 (earlier combined with Electrical Engineering Department and known as EEE Department running since inception of YMCAIE). The department has equipped itself with workshops/labs and syllabus for achieving engineering education excellence, from the support of excellent faculty of the Department, YMCA UST has established itself as well known entity in field of Electronics education. The syllabus of the Department composed of the fundamental concepts blended with ultra-modern topic to impart quality technical education, the lab/workshops consists of basic instrument to software/simulators for providing the student a feel of industrial work environment. Department of Electronics Engineering is running various UG, PG and Ph.D. programs.

## About the Program

MATLAB is an established language for technical computing. It has inbuilt rich library of soft computing, Communication Engineering, Signal and image processing, Control Engineering and Simulink etc. Thus developing any scientific simulation is easy to do using such rich library.

The course is intended specially to provide an opportunity for the students and research scholars to learn basic and advance concepts of MATLAB & simulink and help them in their research.

In the course, the basic and advance concepts of MATLAB will be covered in detail through hands on practice. Candidates would also be taught, how to implement projects in MATLAB and Simulink.

## Participation

The program is interdisciplinary and is open to faculty, technical staff and students from the university.

## Registrations

Faculty, technical staff and students interested in attending the program must get registered with coordinator at JCBUST, Faridabad. You can register in this course from the provided link:

<https://forms.gle/dg1GxshwZcEj63Up6>

The duly filled registration form recommended by competent authority should reach the coordinator latest by 18 January, 2021. No application fee is required for registration.

**Last date for Registration: 17 January, 2021**



# J. C. Bose University of Science and Technology, YMCA, Faridabad (A Haryana State Government University)

Accredited 'A' Grade By NAAC

## DEPARTMENT OF ELECTRONICS ENGINEERING

# IOT

Value Added Course

IoT for Sustainable Energy Sector

Under TEQIP -3

**8th Feb. - 12th Feb. 2021**

# IOT

"Skilled Innovative Youth is the  
Powerhouse which would make  
India Lead the 21st Century"  
-Prof. Dinesh Kumar,  
(Hon'ble Vice Chancellor, JCBUST)



Make

Enhancement to  
**LEAD**



## EXPERT COMMITTEE

Mr. Praphul Sharma, Joint Director International Solar Alliance

Mr. Amreesh Mahajan, Vice President, O2 Power

Dr. S.T. Bendre, Professor, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Dr. Kapil Tripathi, Scientist Vigyan Prasar, DST

Mr. Dileep Adabala, Helpful innovative solution Pvt. Ltd

Mr. Naresh Thakural, Solar Suhaas



# ABOUT THE FDP/WORKSHOP

The value-added E-Course on Internet of Things (IoT) in Sustainable Energy Sector will give a strong platform to students so that they can explore skill specific opportunity for IoT industry. The course aims at increasing skill-set in IoT as an industry oriented subject, to confidently opt for the career path in this domain and give an opportunity to connect with industry through projects.

## INAUGURATION PROGRAM

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10:00 AM- 10:05 AM - Welcome by Coordinators

10:05 AM- 10:10 AM - Introduction of program by Chairperson

10:10 AM- 10:15 AM - Address note by Dean FET

10:15 AM- 10:25 AM - Inauguration Address by Hon'ble Vice Chancellor Sir

10:30 AM- 10:35 AM - Keynote Address by Chief Guest : Dr. Praphul Sharma

10:30 AM- 10:35 AM - Vote of Thanks by Worthy Registrar Sir

## **Patron:**

**Prof. Dinesh Kumar  
Hon'ble Vice-Chancellor**

## **Co-Patron:**

**Prof. Sunil K.Garg  
Registrar**

## **TEQIP Coordinators:**

**Prof Vikram singh, Director TEQIP  
Prof. Munish Vashishath, Coordinator TEQIP**

## **Program Chair:**

**Prof. Neelam Turk  
Chairperson EE Deptt.**

## **Coordinators:**

**Ms. Rashmi Chawla  
Ms. Nisha Yadav**

## **Advisory Committee**

**Prof. Tilak Raj, Dean Institution, JCBUST  
Prof. M. L. Agarwal, Dean FET, JCBUST  
Prof. Munish Vashishath, Electronics Engg. Deptt.  
Prof. Pradeep Dimri, Electronics Engg. Deptt.**

# CONNECT WITH US

INTERNET OF THINGS

# IOT

## Mailing Address

NH-2, Sector-6, Mathura Road,  
Faridabad-121006, Haryana, INDIA

## Email Address

[rashmichawlaymca@gmail.com](mailto:rashmichawlaymca@gmail.com)

## Phone Number

9810368881

**Value Added Course**  
*on*  
**SAFETY IN CONSTRUCTION SECTOR**

*Sponsored by:*



*Organized by:*

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

**February 27- March 25, 2021**



## About, JCBUST YMCA

JCBUSTYMCA has been in existence for the past 50 years and consistently contributing towards engineering professionals and entrepreneurs. The competence of the University has been recognized by agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking among Universities in Haryana), etc. The Department of Civil Engineering at JCBUSTYMCA started in 2018 with an intake of 60 students. The Department is committed to provide the quality education in the area and transform students into graduates with high professional values. The department has also started Ph.D.

## About, Value Added Course

Need of *Safety in Construction Sector* for civil engineers is Immense for various construction related experience is for participants who wish to learn the various safety aspects in the field of civil engineering. Different speakers will hold online sessions via Google Meet platform. The program is specifically for engineering students from university /Institute/Engg. College.

## Faculty

**Dr Vishal Puri, JCBUST YMCA**  
Sh. Yogesh Kumar Morya, JCBUST YMCA

Sh. Vivek Rawat  
Sh. Ankur Mittal

Dr N.K. Tiwary  
Assam Engg. College Gauhati

## Student Coordinators

1. Neeraj 2. Satyam 3. Bhavya Goel

## Participation

Note: There is no registration fee. E-certificates will be given to all participants based on evaluation. Sessions will be held online via Google Meet platforms. Details of each session will be shared in the WhatsApp group. For joining or query, email - vishal.16.88@gmail.com

Timings: 5.30 pm – 6.50 pm.

### COORDINATOR

**Dr Vishal Puri**  
Assistant Professor  
Department of Civil Engineering,  
JCBUST YMCA Faridabad, INDIA,  
Email – vishal.16.88@gmail.com

### CHAIRPERSON

**Prof. (Dr.)**  
Department  
JCBUST

Value Added Course  
**BASICS  
OF  
CNC  
TECHNOLOGY**

## Course Objective

- To understand the basics of numerical control, computer numerical control, direct numerical control and adaptive control system.
- To prepare part program for machining different components on CNC machining and turning centre.

## Contents

### Module 1: NC machines

Concept of numerical control for machine tools  
Numerical control components  
NC positioning system  
Control systems of NC machine tools  
NC manufacturing procedure  
Input media  
Punched tape  
Program tape composition and coding format  
Tape reader  
Role of NC/CNC technology in modern manufacturing  
Advance Features of CNC machining centre and turning centre

### Module 2: CNC machines

Problems with conventional NC  
Concept of computer numerical control  
Functions and Features of CNC system  
Difference between NC and CNC

**Duration** 30-35 contact hours

## Faculty

Dr. Rajesh Kumar Attri, Assistant Professor (Mechanical Engineering)  
Email: rajeshattri2005@gmail.com

Dr. Tilak Raj, Professor (Mechanical Engineering)  
Email: tilakraj64@rediffmail.com

Mr. Udai Kushwaha, Instructor (CNC Lab)

Advantages, Disadvantages and Applications of CNC

### Module 3: DNC and adaptive control systems

Concept of direct numerical control  
Configuration of DNC system  
Types of DNC  
Functions of DNC  
Benefits of DNC

Concept of adaptive control

Process variables of adaptive control

### Module 4: Part Programming

Basics of part programming  
Manual and computer assisted part programming  
Part program composition  
Preparatory and miscellaneous functions  
Part programming for drilling operations  
Part programming for milling operations  
Part programming for turning operations  
Part programming practice in CNC Lab

### Skill Set Gain / Employability Opportunity

1. Skill enhancement in CNC part programming
2. Candidates can work as CNC programmers in Industry
3. Candidates can work as CNC application engineers in Industry



**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
(formerly YMCA University of Science and Technology)

A State Govt. University established wide State Legislative Act. No. 21 of 2009

SECTOR-6, FARIDABAD, HARYANA-121006

Website: <https://jcboseust.ac.in/>

## Course Objective

- To understand the basics of NC, CNC and DNC systems and to compare them.
- To develop the part programs for components to be machined on CNC machining and turning centres

## Contents

### Module 1: Numeric Control System

Introduction to numerical control

NC components

NC coordinate systems

Point to point, lined and contouring systems

open and close loop control system

Steps in NC manufacturing, Advantages

Disadvantages and Applications of NC

Trends and developments in NC

Role of NC/CNC technology in modern manufacturing

Advance Features of CNC machining centre and CNC turning centre

### Module 2: Input media for NC machines

Types of input media, punched tape

program tape composition and coding format

Tape reader

### Module 3: CNC and DNC Systems

Problems with conventional NC

Introduction to computer numerical control

**Duration** 30-35 contact hours

## Faculty

Dr. Rajesh Kumar Attri, Assistant Professor (Mechanical Engineering)

Email: rajeshattri2005@gmail.com

Dr. Tilak Raj, Professor (Mechanical Engineering)

Email: tilakraj64@rediffmail.com

Mr. Udai Kushwaha, Instructor (CNC Lab)

# Value Added Course CNC MACHINING AND PROGRAMMING

Functions and Features of CNC

Difference between NC and CNC

Advantages, Disadvantages and Applications of CNC

DNC System

Components of a DNC system, Types of DNC

Functions of DNC, Advantages of DNC

### Module 4: Part Programming Fundamentals and Practice

Part programming basics

Manual part programming

Part program composition

Preparatory functions

Miscellaneous functions

Tool length compensation

Canned cycles

Cutter radius compensation

Part programming for CNC Machining Centre and CNC Lathe

Part programming practice in CNC Lab

### Skill Set Gain / Employability Opportunity

1. Skill enhancement in CNC part programming
2. Candidates can work as CNC programmers in Industry
3. Candidates can work as CNC application engineers in Industry



**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
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SECTOR-6, FARIDABAD, HARYANA-121006

Website: <https://jcboseust.ac.in/>



**J.C Bose University of Science and Technology,**

**YMCA Faridabad**

(A Haryana State Government University)

**Accredited 'A' Grade By NAAC**



**Community College of Skill Development**

**#Value Added Course on**  
**Workshop in Solid Work**

**22 February 2021 - 27 February 2021**

**46**

## Resource Persons

Eminent industry resource persons from Google, Amazon and Coding Blocks to teach toe to head of programming to new buddies of University with a sole aim to generate coding interest among them.

## Target Participants

The course is open to first year students of the University. The students from any department, who are keen to learn programming may join the course.

## Registration

Participants need to register themselves on the following link before 9th January 2021.

Link of online registration:

<http://bit.ly/BuildingBlocksOfProgramming>

Participants can also Scan QR Code for registration:



## Important dates and details

- **Duration:**  
30 Hours (11-24 January 2021, Alternate Days)
- **Last date of registration on Google Form:**  
9th January 2021
- **Intimation of Confirmation:**  
10th January 2021
- **Venue:**  
ZOOM Platform (Details will be shared, Participants are requested to install Zoom platform or App)
- **Course FEE:**  
No registration fee for participation. E-certificates will be given to all participants on successful completion of the course.

## Patron

**Prof. Dinesh Kumar**  
Vice Chancellor,  
JCBUST, YMCA, Faridabad

## Co-Patron

**Dr. Sunil Kumar Garg**  
Registrar,  
JCBUST, YMCA, Faridabad

## Program Chair

**Prof. Komal Kumar Bhatia**  
Dean (Faculty of Informatics) & Chairman (CE)

## TEQIP Officials

Prof. Vikram Singh, TEQIP Director  
Prof. Munish Vashishath, TEQIP Coordinator  
Dr. Neelam Duhan, Nodal Officer (Academics)  
Sh. Lalit Rai, Nodal officer (Procurement)  
Dr. Manisha, Nodal Officer (Finance)

## Convener

**Dr. Neelam Duhan**  
Associate Professor (CE) & Club Coordinator

## Organizing Committee

Dr. Deepika Punj, Assistant Professor (CE)  
Sh. Sushil Kumar, Assistant Professor (CE)  
Dr. Rewa Sharma, Assistant Professor (CE)  
Sh. Piyush Gupta, Assistant Professor (CE)

## Student Coordinators

Vineet	Nitika
Aayush	Rahul
Rishabh	Shubham

## For any Queries, please contact at

Aayush - 7206233857 | Rishabh - 8708200094  
[cedept@geeksmanjcbust.in](mailto:cedept@geeksmanjcbust.in)



TEQIP 3

sponsored



## Value-Added Course

on

# “BUILDING BLOCKS OF PROGRAMMING”

Specially designed for Newbies to Programming

organized by

**GEEKSMAN- THE CODING SOCIETY**

(Official Club of CE Department)

## DEPARTMENT OF COMPUTER ENGINEERING

11-24 January, 2021



**J.C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD**

(A Haryana State Government University)

Accredited 'A' Grade by NAAC

NH- 2, SECTOR-6, MATHURA ROAD, FARIDABAD

## Aim of Course

The objective of this value-added course on “Building Blocks of Programming” is to provide the technical foundation level training to newly admitted students that will enable their immediate and effective participation in coding Projects. The course is aimed at digging deep into programming basics with the help of C and C++ language. It will present the foundation concepts of programming and software code organization. This special track is organized as a series of lectures, hands-on workshops and exercises using programming languages and focusing on discussing structural programming concepts. The course will provide a forum to the students to encourage and exchange ideas, develop coding interests and motivate them to develop projects as per market demands.

## Prerequisites and Dependencies

Since this is a course for newbies, there is no particular entry requirements. However, students are expected to have elementary knowledge of mathematical and algorithmic logics and to be able to learn how to understand programming code.

## Learning Outcomes

**At the end of the course, participants will be able to:**

- Write, compile and debug programs in C/C++ language and use different data types for writing the programs.
- Design programs connecting decision structures, loops, functions and other control structures.
- Create a programmable model for a given problem.
- Use elementary knowledge of programming code style.
- Immediate participate and contribute as a team member to address some market projects.

## About J. C. Bose University of Science and Technology, YMCA

J.C. Bose University of Science and Technology, YMCA, formerly known as YMCA University of Science and Technology, has exerted a great deal of effort to promote the Technical Education in the State and the Country at large over the past five decades since its inception as an Indo German project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project and RUSA Scheme of MHRD, Govt. of India. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, our students are well accepted by the industries. The University offers B.Tech programs in almost all disciplines and has also added new chapters in its glorious history i.e. MBA, MCA, M.Tech, M.Sc, M.A. (Mass Communication and Journalism), B.Sc Hons, BCA, BBA, B.Sc (Animation & Multimedia) and Ph.D.



## About Department of Computer Engineering

The Department of Computer Engineering aims to promote academic growth by offering high quality UG, PG and Doctoral programmes. The department established in 1991, currently offers B.Tech courses in CE & IT and master courses in CE, IT, CN and computer applications. The doctoral programme was started in 2010. The Department has well trained and research oriented faculty members. The department has modern and state of the art laboratories.

## About GeeksMan - The Coding Society

GeeksMan is an official coding club of Department of Computer Engineering at J. C. Bose University of Science and Technology, YMCA. GeeksMan is all about nourishing the coding skills and is highly biased towards promoting coding culture in the campus. It is a family of geeks mentored by club coordinator Dr. Neelam Duhan under the visionary guidance of Prof. Komal Kumar Bhatia. Earlier, it was a part of Code Chef campus chapter and later on, it has been approved as an official coding club of university.

## About TEQIP-III

Technical Education Quality Improvement Programme (TEQIP) of Govt. of India is being implemented as a world bank project to improve the quality of technical education system in the country. The third phase of this project, TEQIP-III is a 4 year Central Sector Scheme of MHRD for the duration 2017-2021. The objectives of this project are to improve efficiency and effectiveness of the technical education management system in the states and institutions selected under the programme and support development plans. The University has received TEQIP grant under sub-component 1.3 with a Project fund of Rupees 7 Crore.



**J C Bose University of Science and Technology, YMCA, Faridabad**

**Career and Counselling Cell**

*in collaboration with Vedic Club & Department of Management  
invites you to the inauguration ceremony of*

# **BHAGAVAD GITA FOR DAILY ENRICHMENT**

(A 30 hours add-on Certification Course)



**Prof. Dinesh Kumar**

*Chief Patron*

Hon'ble Vice Chancellor,  
J C Bose UST, YMCA

**Convenor : Dr. Arvind Gupta**  
(Head, C&C Cell)

**Co-convenor: Dr. Ashutosh Nigam**  
(Chairman, Department of Management)

**Faculty  
Coordinator : Dr. Neha Goyal**  
(Faculty Member, C&C Cell)

**Platform : ZOOM**

**29 NOV 2020 | 11 AM ONWARDS**



**Sundar Gopal Ji**

*Chief Guest*

ISKCON YOUTH FORUM  
Director, Delhi  
Mtech Gold Medalist  
from IIT DELHI.

*All are Cordially Invited*



**J.C. Bose University Of Science & Technology**

YMCA, Faridabad

(A State Government University)

(Established By Haryana State Legislative Act No. 21 of 2009 & Recognized By UGC Act 1956 u/s 22 to Confer Degree)

Accredited "A" Grade By NAAC

**A Two Week**

**Value Added Course on**

*"An Introductory Course in*

**LATEX**

*For Scientific Writing"*

**15<sup>th</sup> - 27<sup>th</sup> FEBRUARY'2021 , (3:00 - 5:30 p.m.)**



**CHIEF GUEST**

**Prof. Tankeshwar Kumar**

(Vice Chancellor)

G.J.U. Hisar



**PATRON**

**Prof. Dinesh Kumar**

(Vice Chancellor)

JCBUST

**ORGANISED BY:**

**Department of Mathematics, JCBUST, YMCA, Faridabad**

**COORDINATOR**

**Dr. Arpita Chatterjee**

(Assistant Professor)

Contact No.: 8527635535

E-mail: iclymca2021@gmail.com

**CONVENER**

**Dr. Neetu Gupta**

(Chairperson)

Contact No.: 9953505828

E-mail: neetuyymca@yahoo.com



# *J.C. Bose University Of Science & Technology*

*YMCA , Faridabad*

(A State Government University )

(Established By Haryana State Legislative Act No. 21 of 2009 & Recognized By UGC Act 1956 u/s 22 to Confer Degree)

Accredited "A" Grade By NAAC

## About The University

J.C. Bose University of Science and Technology, YMCA, Faridabad (erstwhile YMCA University of Science and Technology, Faridabad erstwhile YMCA Institute of Engineering, Faridabad) 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. It started as an Indo-German project with an aim to impart technical education to a developing India on German pattern.

J.C BOSE University of Science and Technology, YMCA, Faridabad aspires to be a nationally and internationally acclaimed leader in technical and higher education in all spheres which transforms the life of students through integration of teaching, research and character building.

## Course Objectives

Competence in technical writing holds a great importance in the present days. Technical writing deals with specific knowledge and is widely used for preparing journal papers, thesis, project proposals, and other technical documents. LaTeX is a high-quality document typesetting system which is used to produce scientific documents like articles, books, dissertations, technical reports etc. Expertise in drafting technical documents is an indispensable skill for all the professionals. This helps them to share their knowledge of technical subjects in all domains of society with effectiveness and thus makes them competent in their professional careers. This two weeks' course is designed to provide a clear understanding about the basics of technical writing which will enable the participants to communicate their ideas effectively in the form of technical reports, journal papers, conference proceedings etc., by using the technical writing tool LaTeX. Further, Beamer, a LaTeX document class for creating slides for presentations, will be discussed. Introduction about real time collaborative writing and publishing tool 'Overleaf' will be given.

## Topics To Be Covered

- \* Basics of Scientific writing and oral presentation
- \* Introduction to Tex and Latex.
- \* Typesetting different types of documents.
- \* Basic tools for formatting texts.
- \* Page layout by organizing abstract, section, chapter etc.
- \* Different types of environments.
- \* Typesetting of complex mathematical formulae.
- \* Bullets, numbering, generating index, header, footer etc
- \* Table handling.
- \* Inserting figures and images.
- \* References, citation, Bibliography
- \* Tikz and Flowchart
- \* Error messages and their rectification.
- \* Presentation using Beamer.
- \* Introduction about Overleaf.



# J.C. Bose University Of Science & Technology

YMCA, Faridabad

(A State Government University)

(Established By Haryana State Legislative Act No. 21 of 2009 & Recognized By UGC Act 1956 u/s 22 to Confer Degree)

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## RESOURCE PERSONS

**Dr. Shamama Anwar** (Assistant Professor)  
(Department of Computer Science & Engineering)  
BITS, Mesra

**Dr. Ajay Kumar Jena** (Assistant Professor)  
(School of Computer Engineering)  
KIIT, Bhubaneswar

**Dr. Amit Srivastava** (Associate Professor)  
(Department of Mathematics)  
JIIT, Noida

**Dr. Mohd. Sarfaraz** (Assistant Professor)  
(Department of Mathematics)  
JIIT, Noida

**Dr. Lakhveer Kaur** (Assistant Professor)  
(Department of Mathematics)  
JIIT, Noida

**Dr. Amrith Bhide** (Assistant Professor)  
(Department Of Physics)  
NIT, Puducherry, Karaikal

**Dr. Neha Singhal** (Assistant Professor)  
(Department of Mathematics)  
JIIT, Noida

### Register through the link

[https://docs.google.com/forms/d/e/1FAIpQLSdHjbhv9xV7M67Xp8Ep3DWgpC5DgFxbU0oiq1Pvry6I03WvLg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdHjbhv9xV7M67Xp8Ep3DWgpC5DgFxbU0oiq1Pvry6I03WvLg/viewform?usp=sf_link)

(No Registration Charges)

**Registration Deadline : 13 February'2021 by 5:00 p.m.**

\* E-certificates will be issued only to registered candidates with full attendance  
(limited to 500 participants only).

### Organising Committee

(Department Of Mathematics)

Dr. Reena Garg  
Ms. Nisha Singh  
Dr. Ramu Dubey  
Dr. Suraj Goyal  
Mr. Abhishek  
Dr. Pooja Gupta  
Mr. Kuldeep Singh

### COORDINATOR

Dr. Arpita Chatterjee  
(Assistant Professor)

### CONVENER

Dr. Neetu Gupta  
(Chairperson )

### ADVISOR

Dr. Ashutosh Dixit  
Dean (Faculty of Sciences)

**Patron-in -Chief**



**Prof. Dinesh Kumar  
Hon'ble Vice Chancellor  
J C Bose UST, YMCA**

**Patron**



**Dr. Sunil Kumar Garg  
Registrar  
J C Bose UST, YMCA**



**J. C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY  
YMCA, FARIDABAD**

**DEPARTMENT OF CHEMISTRY**

is

*inviting you all in a week long*

**Value Added Course**

**ON**

**“Molecular Interaction in Mixtures(MIM)”**

**6<sup>th</sup> March-21<sup>st</sup> March (Saturday & Sunday)**

**TALKS BY EXPERTS OF THE FIELDS AND VARIOUS EMINENT SPEAKERS  
AS WELL AS HANDS ON TRAINING**

**Conveners:**

**Dr. Nobel Tomar  
Dr. Heena Gupta**

**Student**

**Coordinators:**

**Shivam , Krish ,  
Shine, Nitesh, Ashish  
and Nisha**

**Organizing Committee:**

**Dr. Bindu Mangla  
Dr. SitaRam  
Dr. Shilpa Behl  
Dr. Vishwas Kurana  
Dr. Vinod Kumar  
Dr. Anurag Prakash  
Ms Pooja**

**Registration Link (open till 5<sup>th</sup> March)  
<https://forms.gle/oMNFf3cVAeMEJSvf8>**

**Program Advisor**



**Dr. Ashutosh Dixit  
Dean- Faculty of Sciences  
J C Bose UST, YMCA**

**Program Chair**



**Dr Ravi Kumar  
Chairperson (Chemistry)  
J C Bose UST, YMCA**



# J. C. Bose University of Science and Technology, YMCA, Faridabad

(Established by Haryana State Legislative Act No. 21 of 2009 & Recognised by UGC Act 1956 u/s 22)

Accredited 'A' Grade by NAAC

## About the workshop

This workshop will provide hands-on-training in *Computational Chemistry* tools relevant for theoretical studies of materials. The speakers are from a range of fields such as Molecular Dynamics, Density Functional Theory, *ab initio* methods, Programming Language (FORTRAN & PYTHON), Chemical biology and High-Performance Computing. The department of Chemistry at J. C. Bose University of Science and Technology, YMCA will be hosting the workshop in Online mode.

## Aim/Objective

- To develop awareness of basic theoretical and computational chemistry
- To be familiar with various applications of computational chemistry
- To get a hands-on training on specific computational chemistry tools

## Resource Person

### Keynote Speaker

- Prof. Balasubramanian Sundaram  
CPMU, JNCASR Bangalore.

### Hands-On Training

- Dr. Sairam Swaroop Mallajosyula  
IIT Gandhinagar
- Dr. Sandeep Kumar Reddy  
IIT Kharagpur
- Dr. Koushik Mondal  
IIT (ISM) Dhanbad
- Dr. Anuj Kumar Sharma  
Central University of Rajasthan
- Dr. Avinash  
BHU Varanasi
- Dr. Mahesh Sundararajan  
BARC Mumbai
- Dr. Vinod Kumar  
JBOSEU/ST, YMCA Faridabad

### Patron-in-Chief

Prof. Dinesh Kumar  
Vice-Chancellor,  
J. C. Bose University of Science & Technology, YMCA

### Patron

Dr. Sunil Kumar Garg  
Registrar,  
J. C. Bose University of Science & Technology, YMCA

### Chief-Guest

Prof. Lalit Kumar Awasthi  
Director  
Dr. B. R. Ambedkar NIT - Jalandhar

### Program Advisor

Prof. Ashutosh Dixit  
Dean, Faculty of Sciences  
J. C. Bose University of Science & Technology, YMCA

### Program Chair

Dr. Ravi Kumar  
Chairman, Department of Chemistry  
J. C. Bose University of Science & Technology, YMCA

### Convener

Dr. Anurag Prakash Sunda  
Assistant Professor, Chemistry  
J. C. Bose University of Science & Technology, YMCA

## Sponsored By:

J. C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY,  
YMCA

## One Week Online National e-Workshop on HANDS-ON TRAINING & PRACTICES IN COMPUTATIONAL CHEMISTRY

November 23-27, 2020

Organized By:



DEPARTMENT OF CHEMISTRY

J. C. BOSE UNIVERSITY OF SCIENCE &  
TECHNOLOGY, YMCA

Faridabad 121006



## Workshop Topics

### Keynote Lecture:

- Molecular Modelling & Simulations of Materials  
by Prof. Balasubramanian Sundaram

### ACM Distinguished Speakers Program (DSP)

- Data Mining and Data Analysis Applications with R/Python by Dr. Koushik Mondal  
(Approved by ACM)

### Training Sessions

- Forcefields and applications by Dr. Sairam
- Numerical methods and Geometry Optimization  
by Dr. Sandeep K Reddy
- UV Data Processing using SCAN and NOVA Software tools for voltammograms by Dr. Anuj Kumar Sharma
- Fortran Programming by Dr. Avinash
- DFT: Tutorials using ORCA software & Gabedit  
by Dr. Mahesh Sundararajan
- ESIGMAPLOT: Graphics by Dr. Vinod Kumar
- VMD, Z-Matrix Construction using MOLGEN and L<sup>A</sup>T<sub>E</sub>X Scientific Writing using T<sub>E</sub>XMAKER  
by Dr. Anurag

### Free Sponsored Training Session:

CHEMDRAW: Chemical Structure Drawing by M/S. SCUBE Software Solution Pvt Ltd., New Delhi



## Schedule

23.11.2020	Day - ①
10.30 AM	Inaugural by Hon'ble Vice-Chancellor
10.45 AM	Inaugural Address by the Chief Guest
11.35 AM	Keynote Lecture
01.30 PM	Lunch Break
02.30 PM	Training Session-1: Force-Field
24.11.2020	Day - ②
10.00 AM	Training Session-2: Numerical methods & Geometry Optimization
01.00 PM	Lunch Break
02.00 PM	Training Session-3: Z-matrix constructions in MOLGEN & Coordinate File Formats
25.11.2020	Day - ③
10.00 AM	Training Session-4: Data Mining & Data Analysis with R/Python
12.00 PM	Training Session-5: Fortran Programming
01.00 PM	Lunch Break
02.00 PM	Training Session-6: VMD & GRACE
26.11.2020	Day - ④
10.00 AM	Training Session-7: Data Processing SCAN & NOVA Software tools
11.30 AM	Training Session-8: CHEMDRAW
01.00 PM	Lunch Break
02.00 PM	Training Session-9: VMD & GRACE
27.11.2020	Day - ⑤
10.00 AM	DFT: Basics and Applications
11.00 AM	Training Session-10: DFT Tutorials ORCA software & Gabedit
01.00 PM	Lunch Break
02.00 PM	Training Session-11: ESIGMAPLOT
04.00 PM	Valedictory Session

## Registration

Registration Mode: Online

[Click Here](#)

### Registration Fee\*:

For Student - Rs. 500/- & For Faculty - Rs. 1000/-  
Start Date of Registration: Oct 15, 2020  
Last Date of Registration: Nov 15, 2020

### Limited seats

Short-listed Participants will be intimated through mail for fee payment and Online meeting link (ID). The last date of registration fee payment is 18<sup>th</sup> November 2020.

\*Registration Fee is not applicable for **host department** students.

### Bank Account Details:

Account Name: J. C. BOSE UST YMCA Faridabad  
Bank: Indian Overseas Bank YMCA  
A/c No: 14660100000088  
IFSc Code: IOBA0001466  
MICR Code: 110020044

## Contact Us

Preferred Contact Hrs: 4 - 5 PM

### Organizer:

Dr. Anurag Prakash Sunda  
Assistant Professor, Chemistry  
J. C. Bose University of Science & Technology, YMCA,  
Faridabad 121006  
Email: anurag@jboseust.ac.in  
Ph: +91-9982560724

### Student Volunteers:

- Krish Kalra (+91 88822 71923)
- Prachika (+91 88266 33483)
- Ritesh (+91 97293 55099)
- Manjinder (+91 78381 60114)



**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA FARIDABAD**

**Department of Chemistry  
American Chemical Society (ACS)**

**&**

**Vigyan Bharti (VIBHA)**

**One week(6 days) online Short Term Course**

on

**“ ADVANCED MATERIAL FOR  
AATMANIRBHAR BHARAT ”**

13th -28th Feb. (Only Sat. & Sun.)

**Registration Link:**

<https://forms.gle/Qqr6zfXrw3yxT9W88>

**Patron:**

Prof. Dinesh Kumar  
Vice Chancellor, JC Bose UST

**Co-Patron:**

Prof. Sunil Kumar Garg  
Registrar, JC Bose UST

**Programme Advisor:**

Prof. Ashutosh Dixit  
Dean, Faculty of Sciences, JC Bose UST  
Dr. Krishan Kant  
Principal, Aggarwal PG College, Ballabhgarh

**Programme Chair:**

Dr. Ravi Kumar  
Chairperson, Department of Chemistry, JC Bose UST

**Convener:**

Dr. Bindu Mangla & Dr. Sitaram  
Department of Chemistry, JC Bose UST



**Organizing Committee:**

Dr. Vinod Kumar  
Dr. Anurag Prakash Sunda  
Ms Pooja  
Dr. Nobel Tomer  
Dr. Shilpa Behl  
Dr. Heena Gupta  
Dr. Vishwas Khurana

**Student Co-ordinator:**

Priya Vashishth, Himanshi Bairagi &  
Team ACS

**Contact No.:**

9910141209, 9599114564

J.C. Bose University of Science & Technology, YMCA, Faridabad-121006

Department of Physics

is

organizing

A Value Added Course

On

## Futuristic Research and Related Experimental Techniques

13<sup>th</sup> – 27<sup>th</sup> February, 2021  
(Saturdays and Sundays only)

### Patron

Prof. Dinesh Kumar  
Hon'ble Vice Chancellor  
J.C. Bose UST, YMCA

### Co-Patron

Dr. Sunil Kumar Garg  
Registrar, J.C. Bose UST,

### Program Convenor

Dr. Anuradha Sharma  
Chairperson, J.C. Bose UST, YMCA

### Coordinators

Dr. Maneesha Garg  
Dr. Parveen Kumar  
Department of Physics  
J.C. Bose UST, YMCA

### Organizing Committee

Dr. Sonia Bansal  
Dr. M.K. Yadav  
Dr. Yogita  
Dr. Parmod Kumar  
Dr. Arun Kumar  
Mr. Ompal Singh  
Dr. Kaushal Kumar  
Ms. Arti  
Ms. Shweta  
Dr. Unnati Gupta

### Physics

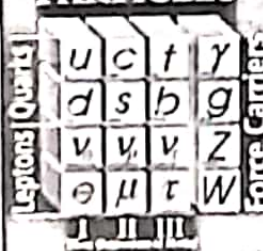
### Program Advisor

Prof. Ashutosh Dixit  
Dean, Faculty of Sciences,  
J.C. Bose UST, YMCA

### Eminent Speakers

Dr. Vasant Sathe (Keynote speaker)  
UGC DAE CSR, Indore  
Prof. Shyam Kumar  
Kurukshetra University Kurukshetra  
Dr. Mukul Gupta  
UGC DAE CSR, Indore  
Dr. Uday Deshpandey  
UGC DAE CSR, Indore  
Prof. S. Annapoorni  
University of Delhi  
Prof. Amita Chandra  
University of Delhi  
Prof. J.K. Quamara  
N.I.T. Kurukshetra  
Prof. Neena Jaggi  
N.I.T. Kurukshetra  
Dr. Suman Mahendia  
Kurukshetra University Kurukshetra

### ELEMENTARY PARTICLES



To join the Inaugural session on 13<sup>th</sup> February 2021 at 10.00 AM on Google Meet, please click the following link: [meet.google.com/roe-qhlo-pke](https://meet.google.com/roe-qhlo-pke) or open Meet and enter code: roe-qhlo-pke



Registration is open till 12<sup>th</sup> February, 2021 <http://www.yjca.ac.in>

*Prof. Maneesha Garg*



# J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY YMCA FARIDABAD

(ESTD. HARYANA STATE LEGISLATIVE ACT NO. 21 OF 2009 & RECOGNIZED BY UGC ACT 1956 U/S 22 TO CONFER DEGREES)

(ACCREDITED 'A' GRADE BY NAAC)

## ORGANIZING VALUE-ADDED COURSE (VAC)

TRANSMEDIA NARRATIVES:

# FROM ORAL NARRATIVES TO NEW MEDIA

(MIXED MODES-ONLINE AND OFFLINE)

 [jcboseust.ac.in](http://jcboseust.ac.in)

NH-2, SECTOR-6, MATHURA ROAD  
FARIDABAD, HARYANA-121006



**(8 FEBRUARY 2021- 12 FEBRUARY 2021)**

## About the University



**J.C. Bose University of Science and Technology, YMCA**, formerly **YMCA University of Science and Technology (YMCAUST)** is a state university located in Faridabad, in the state of Haryana, India. Established as a college in 1969, it gained University status in December 2009 and

was renamed in 2018. J.C. Bose University was established in 1969 as an Indo-German project, a joint venture of the National Council of YMCAs of India, the Government of Haryana and the German Central Agencies for Development Aid, Bonn, Germany. It was earlier affiliated to M.D. University. In 1996 the state government took complete control over the institution. In 2009 it became a university through the YMCA University of Science and Technology Faridabad Act, 2009. In 2018 it was renamed to its current name through the YMCA University of Science and Technology Faridabad (Amendment) Act, 2018.

The university offers undergraduate B.Tech and graduate Master of Technology (M.Tech) courses in various engineering fields. It also offers other postgraduate courses offering Master of Science, Master of Arts and Master of Computer Applications degrees. Scholars can also pursue PhD in various disciplines, including English and Interdisciplinary Studies.

## About FLAMS

The Faculty holds **Animation and Multimedia, Communication and Media Technology** and **Languages and Literature** under one umbrella. It offers *PhD programme in English, MA in English, MA(Journalism and Mass Communication) and BSc ( Animation and Multimedia)*.



It also caters to all other departments offering Mandatory, Audit and Open Elective Courses in English, Communication Skills, Soft Skills and Personality Development and Modern Science Writing and Journalism. It offers a PhD programme in English. The Faculty has established separate media lab for production and language lab for ICT-enabled learning in tune with contemporary corporate world.

## Concept Note



The Faculty of Liberal Arts and Media Studies proposes to conduct a Value-added Course (VAC) in 'Transmedia Narratives and Narratology' integrating the skills and ropes of Journalism, Literature, Digital Media Art and Animation.

This is the era where multiplatform narratives flourish and experiments with stories across genres are encouraged. The VAC will be unique in fostering 'syncretism' and 'transdisciplinarity' in tune with practices of 'convergence culture' and new media art.

Marshall McLuhan famously declares, "The Medium is the Message" and with this course we give our students an opportunity to test the axiom. We shall be exploring narratives across media platforms and genres to witness how the content is transformed according to the form.

The concepts of semiotics and narratology involved hold special significance for students of literature but the use of varied media for showcasing stories/events render the field interesting to learners in a wider field without discrete borders.

We seek to learn how content may be managed in media as diverse as blogs, films, graphic novel and radio/television broadcasting. Finally, there could be a discovery that we are ultimately just reworking oral narratives and re-inventing Grandma's tale. Through the creative voyage, our learners may perhaps find out their own potential for innovation and revitalize one long-forgotten story.

### Within the larger rubric, we plan to hold:

1. Screening of select/iconic movies and interaction and guided review writing.
2. Possibly display of avant-garde work of visual arts
3. Creative writing exercises
4. Embedded Visual Arts workshop/ Animation lessons
5. On-screen Group Discussions on Literary and Critical Terms: author, auteur/writer/reader/perspectives/ montage/plot/ fabula/sujet/ text/pov etc./ narrative techniques
6. Discussion of projects/ Hands-on where art is used for public campaigns and behavioural change
7. Exercises in radio script/ screenplay writing
8. Storyboarding
9. Fundamentals of Comic art
10. Graphic novel writing

*The rubric can be expanded to incorporate Alternate Reality Games, AI and Telematic Art where subjects and objects may interact. Experts who could guide ventures into these areas will be welcomed.*

S.No.	February 8 Day 1 (Mon)	February 9 Day 2 (Tues)	February 10 Day 3 (Wed)	February 11 Day 4 (Thurs)	February 12 Day 5 (Fri)
1.	Inaugural Session Keynote: Mr. Jainendra Singh AIR, Gol	Subaltern Perspectives Dr. Ahmar Mehboob	Transmedia Storytelling Dr Neer KanwalMani	VFX and Digital Media Art Mr. Abhishek Tiwari	Writing like a Pro  Shubha Menon
2.	Kafka in Focus: Law Across Media Dr. Prasannanshu Jain	Narrative Writing across Media Mr. Rajneesh Garg	Animate your Narratives Ms Beenish Khan	Ms Beenish Khan	Contest
3.	Contest	Contest		Dr Neer KanwalMani	Valedictory NKM
4.	Basics of Visual Arts Mr. Arko Dey	Assignments		Contest	

### Eminent Speakers:

Mr. Jainendra Singh, AIR, Gol

Dr Ahmar Mehboob, Associate Professor, Subaltern Studies, University of Sydney, Australia.

Prof Dr Prasananshu Jain, Professor, NLU, Director, Centre for Endangered Languages, Law and Literature.

Dr Neer Kanwal Mani, HOD, Department of English, HES, Government of Haryana. Author and translator.

Mr Rajneesh Garg, Media and PR expert, Ministry of Shipping, GOI.

Ms Shubha Menon, author fiction/ non-fiction

Ms Beenish Khan, Industry/NGO, Animation and AI expert

Mr. Abhishek Tiwari, Animator, VFX and Digital Media Art

Mr. Arko Dey, Asst Professor, JC Bose University, YMCA

Last Date for Entry in Contests: February 5, 2021  
Last Date for Registration: February 8, 2021



**Link for Transmedia Storytelling Contest**

[https://docs.google.com/forms/d/e/1FAIpQLSdn7bClgeWIVrt6tTvFRFRdPTSzH-N\\_6UGKh97g5v7RvMIG9Q/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdn7bClgeWIVrt6tTvFRFRdPTSzH-N_6UGKh97g5v7RvMIG9Q/viewform?usp=sf_link)



**Link for Transmedia Storytelling Registration Form**

[https://docs.google.com/forms/d/e/1FAIpQLSfEpSXqr1fXdpY2LYGpwsI9BQuD7tuDIF0TDSxFGRBJGnfG6w/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfEpSXqr1fXdpY2LYGpwsI9BQuD7tuDIF0TDSxFGRBJGnfG6w/viewform?usp=sf_link)



**Organizing Committee:**

**Chief Patron :**

Professor (Dr) Dinesh Kumar  
PhD (Cantb.), Hon'ble Vice-Chancellor

**Patron :**

Dr SK Garg, Registrar

**Convenor :**

Professor (Dr) Atul Mishra  
Dean, FLAMS

**Event Coordinator :**

Dr Divyajyoti Singh, FLAMS

**Coordinators :**

Dr Taruna Narula & Dr Reena Grewal

**Organizing Secretary :**

Ms Mamta Bansal

**Coordinators, PR team :**

Dr Subhash Goel, Ms Alka Rawat,  
& Dr Sonia Hooda

**Creative team, Coordinators:**

Mr Aditya Gangwar & Mr Arko Dey

**Session Coordinators:**

Ms Oendrilla, Ms Shivani, Mr Randeep,  
Ms Rachita Rawat & Ms Ankita Goel

**Hands-on creative work :**

Mr Ramras, Ms Rashika,  
Ms Sangeeta & Mr Himanshu

**Assisting Staff :**

Mr Amit Rathee and Mr Satish





## Department of Life Sciences

### Value Added Course

on

### ***"Genetics in Everyday Life"***

Session 2020-2021

20<sup>th</sup> April 2021 Onwards

30  
hrs

#### Speakers-

- Dr. Khushal Singh, SGT University, Gurugram
- Dr. Anurag Mishra, DST
- Dr. Shikha Prasad, Gargi College, DU
- Dr. Renu Puri, Gargi College, DU
- Dr. Ashish Gupta, JCBUST
- Dr. Komal Tanja, JCBUST
- Dr. Sakshi Tewari, JCBUST
- Dr. Amreesh Vishwakarma, RMV Nutrient Pvt. Limited

#### Conveners-

- Dr. Ashish Gupta  
Assistant Prof. Dept. of Life Sciences
- Dr. Komal Taneja  
Assistant Prof. Dept. of Life Sciences
- Dr. Sakshi Tewari  
Assistant Prof. Dept. of Life Sciences

#### Programme Advisor-

- Dr. Ashutosh Dixit  
Dean, Sciences

#### Programme Chair-

- Dr. Ravi Kumar  
Chairman, Life Sciences

#### Major Topics of Course

- Genetics in everyday life- a forensic perspective
- GM Crops-an ethical and collective analysis
- Mutations-Good or Bad
- Human Aneuploidy: Incidence, Origin
- Genetic Complementation Test and Application
- Human Molecular Genetics
- Maternal effect Vs Maternal inheritance
- Genetic Mutations and Selection
- Population Genetics
- Hardy Weinberg Equilibrium

Certificates will be provided on successful completion of the course



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

**NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
(Accredited 'A' Grade by NAAC)**

## **DEPARTMENT OF ENVIRONMENTAL SCIENCES CONDUCTING**

**Value Added Course  
on**

# **“Human Values and Professional Ethics”**

**Registration will start from 24<sup>th</sup> April 2021**

**Classes will start from 26<sup>th</sup> April 2021**

**Chairperson**

**Dr. Renuka Gupta  
Chairperson(EVS)**

**Coordinator**

**Dr. Anita Girdhar  
Assistant Professor(EVS)**

**E-certificates will be provided on successful  
completion of the course**

**Registration Link – <https://forms.gle/7WnySeCW3gntHEbKA>**

## Course Objective

- Get insight of latest metal joining techniques
- Emphasize on industry specific applications of Welding and Allied Processes
- Explore the Testing Methods used for Welded Joints

## Course Coverage

Overview of Welding Processes & Consumables  
Welding Techniques and Emerging Trends  
Advancements in Fusion and Solid State  
Welding of specific metals and alloys  
Friction Stir Welding / Processing  
Weld joint testing methods  
Welding hazards and Safety

## Note

- Starting from February, 2021
- Duration 30-35 hours. Flexible time table
- Certificate on completion
- No fee, No credits, No exam
- Open for all students of the University

## Course Coordinators

Dr. Hari Om  
Professor (Mechanical Engineering)  
Email: hari.ohm0408@gmail.com  
Mobile: 9818219940

Dr. Rajeev Saha  
Asst. Prof. (Mechanical Engineering)  
Email: rajeevsaha@gmail.com  
Mobile: 9911921584

Value Added Course  
**ADVANCED  
METAL JOINING  
AND TESTING**

### Skill Set Gain / Employability Opportunity

Welding and allied processes are no doubt the essential part of many important industries e.g. automobile, railways, aviation, shipbuilding, petroleum and more.

Participant will get in-depth knowledge of advancement in the field of metal joining with an emphasis on welding and allied processes and its testing methods which are integral parts of any fabrication Industry.



**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
(formerly YMCA University of Science and Technology)

A State Govt. University established wide State Legislative Act. No. 21 of 2009

SECTOR-6, FARIDABAD, HARYANA-121006

Website: [www.jcboseust.ac.in](http://www.jcboseust.ac.in)

Value Added Course on  
**“QUALITY TOOLS & TECHNIQUES”**



### Course Objective

- Understand the concepts of Quality
- Diagnose problems in the quality improvement process
- Apply various quality improvement tools and techniques

### Course Coverage

Introduction to basic Quality Concepts  
Quality Tools & Techniques – Need & classification, Basic tools  
Quality Function Deployment (QFD)  
Control Charts, Quality Circles, 5S, Pairwise Comparison  
Cause & effect diagram, Pareto analysis, Force field analysis  
Waste Management, Supply Chain Management  
Six Sigma, ERP and other tools/ techniques  
Service quality models: SERVQUAL and SERVPERF  
ISO 9000, Industry 4.0 – Introduction & Concepts

### Note

- Duration 30-35 hours. Flexible time table
- Certificate on completion
- No fee, No credits, No exam
- Open for all students of the University

### Course Coordinators

Dr. Sandeep Grover  
Professor (Mechanical Engineering)  
Email: groversandeep@hotmail.com  
Mobile: 9871072555

Dr. Rajeev Saha  
Asst. Prof.(Mechanical Engineering)  
Email: rajeevsaha@ymcaust.ac.in  
Mobile: 9911921584

### Skill Set Gain / Employability Opportunity

Participant will be able to diagnose quality related problems thereby improving the underlying process as well as product using various available tools and techniques. Quality is an ongoing process and will always remain in demand across the industries.



Department of Mechanical Engineering  
**J. C. Bose University of Science and Technology, YMCA, Faridabad**

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Website: [www.jcboseust.ac.in](http://www.jcboseust.ac.in)



**J C Bose University of Science and Technology, YMCA, Faridabad**  
**Department of Mechanical Engineering**

**Flow Management Skill**

**Course objective**

The aim of this course is to develop the quality in the growing engineers that an industry expected from the first day. This course is developed in such a way students can solve a problem immediately that an engineer gained after a long experience.

This course covers the concept of manufacturing in industry, observation skills required in an engineers, safety issues in industry, understanding the flow of material in industry, encouraging working in group, problem solving in industry, leadership skill in engineer through VLCI tools.

**Course coverage:**

- Observation skills in a public place and factory
- Plant lay out of industries
- Flow management system and concept
- Leadership skill development
- Profit tree

**Skill gain:**

- Though this course observation skill will be developed in participant, by which many flaw full activities, such as positioning of equipment's or material, bypass of safety and cleanliness can be easily detected and management can take corrective actions in time.
- Improve the flow of material in production line.
- Able to work in group to solve to major task allotted to them.
- Understand the profit tree and increase the profit of the industry.

**Who can apply?**

1. All students B tech of 3<sup>rd</sup> and 5<sup>th</sup>. 60 students will be allowed.
2. First come and first serve will be strictly observed
3. On-line google form is required to be filled by clicking the following link
4. [https://docs.google.com/forms/d/e/1FAIpQLSe0d4UN2eQZ9OA4WjcAQ4jA6Fs02\\_cvOOw\\_FAlibqIWEHPQnHw/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSe0d4UN2eQZ9OA4WjcAQ4jA6Fs02_cvOOw_FAlibqIWEHPQnHw/viewform?usp=pp_url)

### Special attraction

- This course is industry based. Therefore all the practical work will be done in industries.
- Experts from industries will be involved.
- Duration of course: 36 hours
- Total 3 hours per week; Theory: 1 hrs and Practical: 2 hrs
- On line instructions

### Course coordinators:

Dr O. P. Mishra

Assistant Professor; Email.id [opmishra.m@rediffmail.com](mailto:opmishra.m@rediffmail.com); Mb: 9818602901

Dr Mahesh Chand

Assistant Professor; Email.id; [mchanddce@gmail.com](mailto:mchanddce@gmail.com) Mb: 9999917830

Sh. Surender Singh

Assistant Professor; Email.id: [surendersingh@jcboseuct.ac.in](mailto:surendersingh@jcboseuct.ac.in) ; Mb: 9416992291

Note: The tentative date of Starting the course is **31 Jul 2020**. The detail of the class schedule will be shared.



***J.C. Bose University Of Science & Technology***

***YMCA, Faridabad***

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**A Two Week**

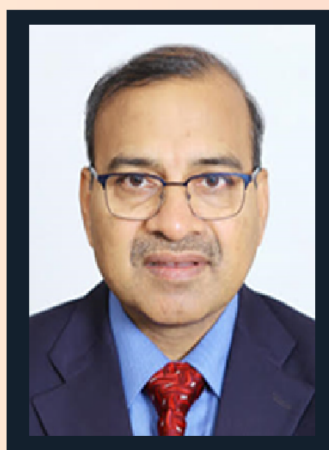
**VALUE ADDED COURSE**

On

**An Interactive Approach to Learn Mathematical Applications of**

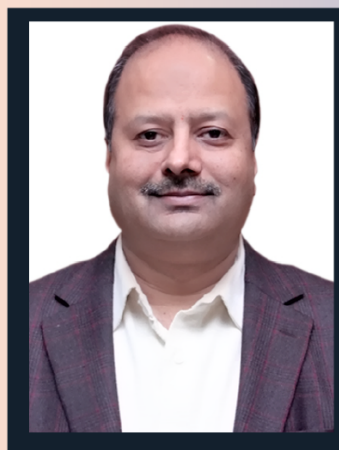
**C & C++**

**IALC - 2021**



**Chief Guest**

**Prof. Rajeev Kansal**  
(Member Secretary, AICTE)



**Patron**

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

**Date: 21<sup>st</sup> May - 3<sup>rd</sup> June 2021**

**Time: 11a.m. - 1:30p.m.**

**ORGANISED BY:**

**Department of Mathematics, JCBUST, YMCA, Faridabad**

**COORDINATOR**

**Dr. Ramu Dubey**  
(Assistant Professor)

Contact No.: 9140263832

**CONVENER**

**Dr. Neetu Gupta**  
(Chairperson)

Contact No.: 9953505828



# J.C. Bose University Of Science & Technology

YMCA, Faridabad

(A State Government University)

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## About The University

JC Bose University of Science & Technology, YMCA Faridabad was established by an Act of Legislature of State of Haryana (Act 21 of 2009) by upgrading erstwhile YMCA Institute of Engineering, Faridabad to Facilitate and Promote the studies and research in emergent area of higher education with focus on new frontiers of Science, Engineering & Technology, Management Studies, non conventional energy resources and environmental studies and also to Achieved excellence in these and connected fields. Before the University came into being, it was started in 1969 as an indo –German Project with an aim to impart technical education and started offering diploma courses with intake of 120 students. It started B.Tech course from the session 1996-97 with annual intake of 240 student . Subsequently , YMCA institute of Engineering, Faridabad has been upgrade into a leading teaching-cum affiliating State University to facilitate and promote studies and researches in UP/PG courses which were subsequently added. It is recently accredited by National Assessments and Accreditation Council (NAAC) and awarded "A grade", Further ,it is ranked no.1 among State Government Engineering Institute by National Institute Ranking Frame Work (NIRF) in 2017. The University also holds top 10 ranking institute on NPTEL since last two years. The University offer B.Tech Course in eight Discipline namely , Civil, Information Technology, Computer Engineering, Mechanical ,Electrical, Electronics & Communication, Electronic Instrumentation Control, ECC. The University offer Post Graduate Degree like M.Tech, MBA, MCA and Ph.D. There are many Undergraduate course (B.Sc in Mathematics, Physics, Chemistry and Animation, BA in Journalism and Mass Communication, BCA and BBA) newly run by the University.

## About The Department

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 Talks, Seminar, Workshop, Conference, Quizzes& Debates etc .Our vision is to be one of the renowned Institute of research in Mathematics and its Application as well as in Teaching and Learning. The Department mission to impact the Knowledge, clear and Deep understanding of the subject and to prepare students , so they can face the challenges and use knowledge to make a better world. In 2018, the Department has started new Undergraduate course (B.Sc honours in Mathematics) . The Postgraduate course being run in the department with the objectives to develop Mathematics attitude in students, Future their interest towards mathematics and motivate them for research in mathematical sciences.The Department also offer Doctorate degree in the field of mathematics like Partial Differentiate Equations, Quantum Optics, Queuing Theory, Numerical Analysis, Reliability Theory, Operation Research.

## Course Objectives

C and C++ are low level languages that are used to write compilers of various high level programming languages.

The course is designed to provide basic knowledge of C, C++ and their Application in Mathematics.

The Main Objective of C and C++ is Understands the basics of C and C++ being able to Carry out simple hhnnumerical computation.



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## Topics to be Covered

1. Basics of C and how does it work?
2. Data types in C and C++
3. Numerical Computations in C and C++
4. Inheritance in C++ and its applications
5. Classes and objects in C++
6. Functions in C and C++
7. Control Statements in C
8. Various operators in C and C++
9. Arrays in C and C++
10. Strings in C and C++
11. Pointers in C and C++
12. File handling in C

## Eligibility

The Value added course is interdisciplinary and is open for UG, PG Students, Research Scholars and Faculty member of all the Departments of the University.

Fee: There is no Registration Fees for this value added course

## Important Dates

Last date for registration: 21<sup>st</sup> May 2021

Inauguration of Value added course: 21<sup>st</sup> May 2021

Valedictory of Value added course: 3<sup>rd</sup> June 2021



# ***J.C. Bose University Of Science & Technology***

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**Platform**

**Zoom Meeting**

<https://us02web.zoom.us/j/86355826940?pwd=WmEzYitEQTRBQ2s1WEduUE9YY3ltZz09>

Meeting ID: 863 5582 6940

Passcode: 416830

## **For any Queries, contact**

Dr Ramu Dubey

(Coordinator, IALC-2021)

Assistant Professor, Department of Mathematics, JC Bose University of Science & Technology, YMCA Faridabad.

Email:-rdubeyjiya@gmail.com

Mobile No:- 9140263832

Dr Pooja Gupta

(Co-Coordinator, IALC-2021)

Assistant Professor, Department of Mathematics  
,JC Bose University of Science & Technology, YMCA Faridabad.

Email:-poojagargdu@gmail.com

Mobile No:-9813390244

Mr. Kuldeep Singh

(Co-Coordinator, IALC-2021) , Mobile No:- 7027353765

Assistant Professor, Department of Mathematics, JC Bose University of Science & Technology, YMCA Faridabad

Email:-kuldeepsinghbhati599@gmail.com



# *J.C. Bose University Of Science & Technology*

*YMCA , Faridabad*

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## **CHIEF PATRON**

Prof. Dinesh Kumar  
Hon'ble Vice Chancellor  
J.C. Bose University Of Science & Technology  
YMCA , Faridabad, Haryana

## **PATRON**

Dr. Sunil Kumar Garg  
Registrar  
JC Bose University of Science & Technology,  
YMCA Faridabad, Haryana

## **CHIEF GUEST**

Prof. Rajeev Kansal  
Member Secretary, AICTE

## **RESOURCE PERSONS**

Prof. RC Mittal  
Department of Mathematics  
J.I.I.T Noida

Dr. Sachin Kumar  
Assistant Professor  
Department of Computer Engineering.  
Delhi University(DU),

## **Organising Committee**

(Department Of Mathematics)

Dr. Reena Garg, Assistant Professor  
Dr. Arpita Chatterjee, Assistant Professor  
Dr. Suraj Goel, Assistant Professor  
Ms. Hemlata, Assistant Professor  
Mr. Abhishek, Assistant Professor  
Dr. Parveen , Assistant Professor  
Ms. Manu Rohilla , Assistant Professor

## **CONVENER**

Dr. Neetu Gupta  
(Chairperson )

## **COORDINATOR**

Dr. Ramu Dubey  
(Assistant Professor)

## **CO-COORDINATOR**

Dr. Pooja Gupta(Assistant Professor)  
Mr. Kuldeep Singh(Assistant Professor)

# Value Added course on Start up Strategies



**Coordinators: Dr. Rupali Madan Dr. Anushree Chauhan**

The Department of Management Studies is starting an add-on course on “Start Up Strategies” from 15th February 2021 on alternate days, timings will be from 3pm to 5pm. The duration of the course will be 30 hours. The contents of the course will be delivered by resource persons from within the university and through experienced persons from outside the university.

**Course content of Value added course “Start Up Strategies”:**

Introduction to Start-ups, Phases of start up, Motivation for the start up, Start-up Ecosystems and its components, Way to prepare investor deck, Way to create an effective elevator Pitch Business Forecasting and start-ups, Start-up Funding Phase-1 (from Bootstrapping to Angel Funding to Series A), Start-up Funding Phase-2-From Series A to Series B to Public Funding, Team building, Crowd funding and start ups, Role of Information Technology in Start-up, Marketing strategies for Start –ups, Schemes of government for start up.

# Resources Persons

1. Mr. Ajay Sharma, Head, Start-up Cell, JCBoseUST, YMCA Faridabad,
2. Dr. Rupali Madan, Assistant Prof, Department of Management Studies, JCBUST, YMCA, Faridabad
3. Dr. Anushree Chauhan, Assistant Prof, Department of Management Studies, JCBUST, YMCA Faridabad
4. 4. Dr. Rachna Agrawal, Associate Prof, Department of Management Studies, JCBUST, YMCA Faridabad
5. 5. Dr. Jyotsana Chawla, Assistant Prof, Department of Management Studies, JCBUST, YMCA Faridabad

# External Experts

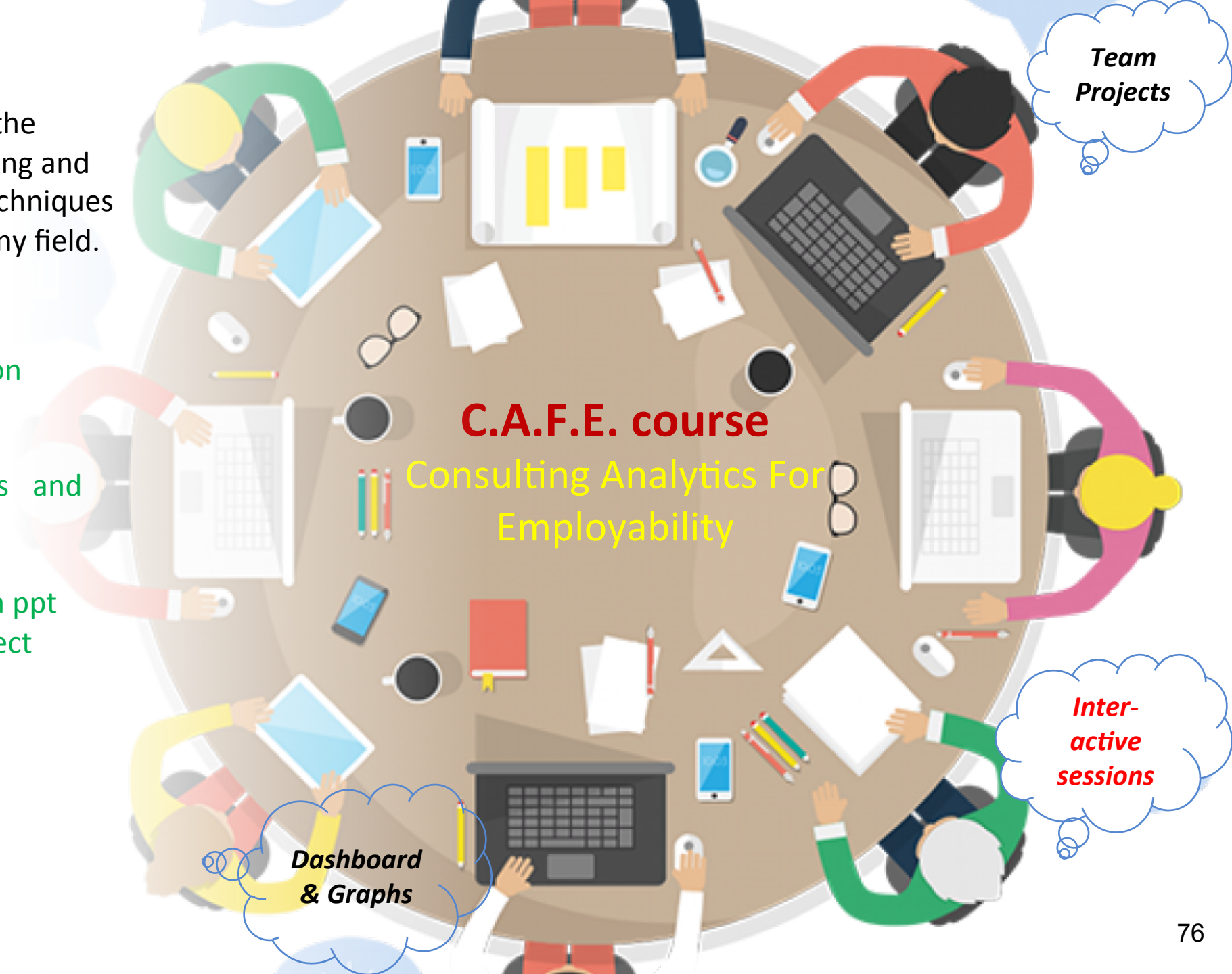
1. Mr. Sanjeev Vashist, Motivational Speaker – Goal Setting and Sub-Conscious Level Trainings.
2. Mr. Manish Singhal, Founder and MD PVM Logistics – Business Modeling
3. Mr. Ramneek Singh, Founder & MD Motif Group & AMI Merchant Services India
4. Mr. Bhupesh Aggarwal, Country Head Retails (India) – ICICI bank
5. Mr. Gaurav Kapoor, Vice President, Axis Bank

## Why CAFÉ?

The course is expected to enhance the employability in the field of consulting and regular management jobs. These techniques can be utilized in everyday jobs in any field.

### Contents :

- ❖ Data gathering and web extraction
- ❖ Survey design
- ❖ Data cleaning and validation
- ❖ Learn pivots, formulae, charts and other techniques in excel
- ❖ Creating attractive dashboards
- ❖ Building a story and presenting in ppt
- ❖ Assignments and consulting project



## C.A.F.E. course

### Consulting Analytics For Employability

Team  
Projects

Inter-  
active  
sessions

Dashboard  
& Graphs



VALUE ADDED COURSE ON  
**INDUSTRIAL ROBOTICS AND AUTOMATION (IRA)**

### OVERVIEW

The Industrial Robotics and Automation course will enhance all the theoretical and practical details to master industrial robotics and automation its versatile usage. This course is specially designed for Students and engineers interested in understanding the applications of industrial robots and automation and their most common control methods.

### Goals & Contents:

- Operating of the Robot System.
- Knowledge and usage of the Co-ordinate system.
- Method of Tool calibration and Base calibration.
- To realize a mastering.
- Usages of the navigator, creating programs and archiving of programs.
- Usages of motion programming.
- Usage of logic programming in Handling and Welding applications.
- Customised programming experience using Videos/ Virtual methods.

### Organised By,

Department of Mechanical engineering  
J.C.BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, YMCA, FARIDABAD

### CERTIFICATION

J.C BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, YMCA FARIDABAD

### Starting Date:

26-04-2021

[For online Application scan QRCODE or click here](#)



### FAQ'S

**Am I a good fit for the Industrial Robotics and automation (IRA) course?**

*We shall meet with you to discuss your interests and skill levels and suggest you with proper guidance to get yourself acquainted with industrial Robots from basics to advance level.*

**What is the cost?**

*The VALUE ADDED COURSE is free of course.*

**How long is the training?**

*The training would be of 30hrs. Schedule will be flexible in discussion with the participants.*

**What is the batch size?**

*The batch size would be of 30 Students.*



**Convenors:**  
**Dr. Sanjeev Goyal**  
**Assoc. Prof. (MED)**



# J. C. Bose University of Science and Technology, YMCA, Faridabad-121006 Department of Physics

Value Added Course on

## Advanced Materials and Their Pathways (AMTP-2021)

31<sup>st</sup> May – 04<sup>th</sup> June, 2021

**PATRON**



**Prof. DINESH KUMAR**  
HON' BLE VICE CHANCELLOR  
J. C. BOSE UST, YMCA, FARIDABAD

**CO-PATRON**



**Dr. SUNIL KUMAR GARG**  
REGISTRAR, J. C. BOSE UST,  
YMCA, FARIDABAD

**PROGRAM  
ADVISOR**



**Prof. ASHUTOSH DIXIT**  
DEAN, FACULTY OF SCIENCES,  
J. C. BOSE UST, YMCA, FARIDABAD

**PROGRAM  
CONVENER**



**Dr. ANURADHA SHARMA**  
CHAIRPERSON, PHYSICS  
J. C. BOSE UST, YMCA, FARIDABAD

**AN EXPOSURE OF BRAINS INTO THE DEEP SEA OF KNOWLEDGE, WE TAKE YOU AHEAD TO GAIN A LOT IN A FEW DAYS.**

1. UNDERSTANDING THE CONCEPT OF WASTE WATER TREATMENT.
2. SYNTHESIS OF ADVANCED MATERIALS AND THEIR APPLICATIONS.
3. PLASMA PHYSICS, THEORY AND EXPERIMENTS, GENERATION OF TERAHERTZ RADIATION.
4. MAGNETISM: ELABORATION WITH UNDERSTANDING FROM FUNDAMENTALS TO NEWER FACTS.
5. SPECTROSCOPY: THE FLUORESCENCE AND RAMAN SPECTROSCOPY AND THEIR APPLICATIONS.
6. DEVICE FABRICATION: PHENOMENA, CONSTRUCTION AND UTILISATION OF FUNCTIONAL STRUCTURES.
7. THE AMUSING POWER OF NUCLEAR PHYSICS: FUSION AND FISSION CONCEPTS IN NUCLEAR REACTORS.
8. X-RAY DIFFRACTION AND STRUCTURAL ANALYSIS, THE POWERFUL NON DESTRUCTIVE TECHNIQUE FOR CHARACTERIZATION.

**THERE IS MORE TO IT WHEN YOU GET INTO REAL LEARNING WITH OUR EXPERTS.**



# Department of Physics

Value Added Course on

## Advanced Materials and Their Pathways (AMTP-2021)

31<sup>st</sup> May – 04<sup>th</sup> June, 2021

### EMINENT SPEAKERS



**Prof. H K Malik**  
(Keynote speaker),  
IIT Delhi



**Prof. Sujata Sanghi**  
GJUST, HISAR



**Dr. Maneesha Garg**  
JCBUST, YMCA, Faridabad



**Prof. Anil K Malik**  
CCS, Meerut



**Dr. Pankaj Rawat**  
SERB, New Delhi



**Prof. Manish Kumar**  
JNU, New Delhi



**Dr. Anurag Gaur**  
JCBUST, YMCA, Faridabad



**Dr. Sunil Pradhan**  
IISER Berhampur, Orrisa



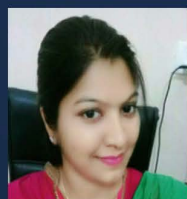
**Dr. Gayatri Mohanto**  
BARC, Mumbai



**Dr. Dinesh Dixit**  
IIT Delhi



**Dr. Vinod Kumar**  
JCBUST, YMCA,  
Faridabad



**Dr. Sonia Bansal**  
JCBUST, YMCA,  
Faridabad



**Dr. Sandeep Kumar**  
MRU, Faridabad



**Dr. Anuj Kumar**  
JCBUST, YMCA,  
Faridabad



**Dr. Smita**  
JCBUST, YMCA,  
Faridabad



# Department of Physics

Value Added Course on

## Advanced Materials and Their Pathways (AMTP-2021)

31<sup>st</sup> May – 04<sup>th</sup> June, 2021

### ABOUT UNIVERSITY

J. C. Bose University of Science and Technology, YMCA, formerly YMCA University of Science and Technology (YMCA UST) formerly YMCA Institute of Engineering (YMCAIE), is a state university located in Faridabad, in the state of Haryana, India. Established as a college in 1969, it gained university status in December 2009 and was renamed in 2018. "J. C. BOSE University of Science and Technology, YMCA, Faridabad aspires to be a nationally and internationally acclaimed leader in technical and higher education in all spheres which transforms the life of students through integration of teaching, research and character building."

### ABOUT DEPARTMENT

The physics department of the university is the one that aims to trigger the brains to think creative and is the root of the discoverers, the innovators. We have faculty with interests ranging from experimental to theoretical aspects of physics. Apart from teaching and guiding students in their goals and projects, our faculty actively engages in regular seminars, discussion forums, and popular talks. Regular visits of experts and scholars from academia and industry for technical and popular talks add to the vibrant academic culture of sharing and collaboration.

### ORGANISING COMMITTEE

Dr. SONIA BANSAL	Dr. ARUN KUMAR
Dr. MANEESHA GARG	Dr. YOGITA BATRA
Dr. ANURAG GAUR	Dr. RASHI GUPTA
Dr. ANUJ KUMAR	Dr. KAUSHAL KUMAR
Dr. M.K. YADAV	Mr. AMAN JOSHI
Dr. PARVEEN GOYAL	Ms. ARTI
	Ms. SHWETA

### COORDINATORS



**Dr. PARMOD KUMAR**  
DEPARTMENT OF PHYSICS  
J. C. BOSE UST, YMCA,  
FARIDABAD



**Mr. OMPAL SINGH**  
DEPARTMENT OF PHYSICS  
J. C. BOSE UST, YMCA,  
FARIDABAD

### STUDENT COORDINATORS

TEAM PRAGYANAM  
PHYSICS SOCIETY OF  
J. C. BOSE UST, YMCA,  
FARIDABAD



### Eligibility and Registration

Students enrolled in B.Sc. Honours in Physics, M.Sc. Physics and research scholars can register for the course using the link provided below-

<https://forms.gle/8fUxgBjUAfRFjCx99>

**Last date for registration is 29th May 2021**

## Schedule

Date	Experts Name / Session Timings	Topic	Session Coordinators
<b>Monday 31.05.2021 Morning</b>	<b>Inaugural Session - 10:00 AM – 10:30 AM</b>		Dr. Parmod Kumar and Mr. Ompal Singh
	Prof. Hitendra K. Malik, IIT Delhi 10:30 AM – 11:30AM	Plasma and Material	
	Prof. Anil K. Malik, CCS Meerut 11:30 AM – 1:00 PM	Terahertz Science: A New Opportunity	
<b>Monday 31.05.2021 Evening</b>	Dr. Anurag Gaur, JCBUST, Faridabad 3:00 PM – 5:00 PM	<b>Lecture and Demonstration:</b> Synthesis of Advanced Nanomaterials	Dr. Rashi Gupta
	<b>Assignment - 5:00 PM – 6:30 PM</b>		
<b>Tuesday 01.06.2021 Morning</b>	Dr. Dinesh Dixit, IIT Delhi 10:00 AM – 11:30AM	Introduction to Magnetic Materials	Dr. Maneesha Garg
	Prof. Sujata Sanghi, GJUST, Hisar 11:30 AM – 1:00 PM	Introduction to Nonlinear Optical Materials	Dr. Anurag Gaur
<b>Tuesday 01.06.2021 Evening</b>	Dr. Anuj Kumar, JCBUST, Faridabad 3:00 PM – 5:00 PM	<b>Lecture and Demonstration:</b> Device Fabrication	Mr. Aman Joshi
	<b>Assignment - 5:00 PM – 6:30 PM</b>		
<b>Wednesday 02.06.2021 Morning</b>	Dr. Sunil Pradhan, IISER Berhampur 10:00 AM – 11:30AM	Nanofabrication: The State of Art Device Technology	Dr. Anuj Kumar
	Dr. Vinod Kumar, JCBUST, Faridabad 11:30 AM – 1:00 PM	Fluorescence Spectroscopy and Its Applications	Dr. Yogita Batra
<b>Wednesday 02.06.2021 Evening</b>	Dr. Maneesha Garg, JCBUST, Faridabad 3:00 PM – 5:00 PM	<b>Lecture and Data Analysis:</b> X-ray Diffraction and Structural Analysis	Dr. Rashi Gupta
	<b>Assignment - 5:00 PM – 6:30 PM</b>		
<b>Thursday 03.06.2021 Morning</b>	Dr. Smita, JCBUST, Faridabad 10:00 AM – 11:30AM	Basic Aspects of Wastewater Treatment.	Dr. Sonia Bansal
	Dr. Gayatri Mohanto, BARC, Mumbai 11:30 AM – 1:00 PM	Exploring nuclear properties through fusion fission reaction	Dr. Arun Kumar
<b>Thursday 03.06.2021 Evening</b>	Dr. Sonia Bansal, JCBUST, Faridabad 3:00 PM – 5:00 PM	<b>Lecture and Data Analysis:</b> Raman Spectroscopy	Mr. Aman Joshi
	<b>Assignment - 5:00 PM – 6:30 PM</b>		
<b>Friday 04.06.2021 Morning</b>	Dr. Sandeep Chaudhary, MRU Faridabad 10:00 AM – 11:30 AM	Plasma and its role in particle accelerators and astrophysics	Dr. Parveen Kumar
	Dr. Pankaj Rawat, SERB, New Delhi 11:30 AM – 1:00 PM	Thermoelectrics: Introduction, Applications, Challenges and Recent Trends in Materials Research	Dr. M. K. Yadav
<b>Friday 04.06.2021 Evening</b>	Prof. Manish Kumar, JNU, New Delhi 3:00 PM – 5:00 PM	Hybrid Halide Perovskite Solar Cells: New Era in Photovoltaics	Dr. Parmod Kumar Mr. Ompal Singh
	<b>Valedictory, 5:00 PM – 6:00 PM</b>		

**PATRON**  
Prof. Dinesh Kumar  
Vice Chancellor

**ADVISOR**  
Dr. S.K. Garg  
Registrar

**PROGRAMME CHAIR**  
Dr. M.L. Aggarwal  
Chairman, Civil Engineering

**KEY SPEAKER**  
Dr. Mohammed Aslam AK  
Green Infrastructure Technology for Climate Change  
Research  
YONSEI UNIVERSITY,  
REPUBLIC OF SOUTH KOREA

**COORDINATORS**  
Dr. Owais S. Mir  
Assistant Professor, Civil Engineering  
*and*  
Dr. Sandeep Ravish  
Assistant Professor, Civil Engineering

**ORGANIZING COMMITTEE**  
Dr. Owais S. Mir, JC Bose UST  
Dr. Sandeep Ravish, JC Bose UST  
Dr. Vishal Puri, JC Bose UST  
Sh. Ashish Aggarwal, JC Bose UST

**VENUE**  
The course will be held at Civil Engineering,  
Department, J.C. Bose University of Science and  
Technology, YMCA, Faridabad in ONLINE mode.

**ADDRESS FOR COMMUNICATION**  
Dr. Owais S. Mir  
CV 504, Department of Civil Engineering,  
J.C. Bose UST, YMCA, Faridabad – 121006  
Tel: +91-7006825560  
E-mail: owais[at]jcboseust.ac.in

**DEPARTMENT OF CIVIL ENGINEERING,  
J.C. BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, YMCA, FARIDABAD**

J.C. Bose University of Science and Technology, YMCA has been in existence for the past 52 years and consistently contributing towards creation of competent engineering professionals and entrepreneurs. The competence of the University has been recognized at various levels by the agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana), NBA, etc.

The Department of Civil Engineering at J.C. Bose UST, YMCA, Faridabad started in 2018 with an AICTE approved intake of 60 students. The Department is committed to provide the quality education in the area of Civil Engineering to transform students into graduates with high professional values. The goal of department is to produce high quality technical manpower needed by industry, R&D organizations, and academic institutions and above all to meet the engineering needs of the nation.

**CONTENTS**

The course will consist of series of lectures covering the current advances in the field of Geotechnical and Hydraulic Engineering. The course contents will be covered through power- point presentations, interactive sessions, group discussions etc.

**PARTICIPATION**

The program is open to the students, faculty, technical staff from University/Institute/ Polytechnic. Registration will be done through Google Form. **There is no fee and e-certificates will be given on successful completion.**

**REGISTRATION LINK**  
<https://forms.gle/UzzDTPYjH3hwbp2UA>

**DEPARTMENT OF CIVIL ENGINEERING,  
J.C. BOSE UNIVERSITY OF SCIENCE AND  
TECHNOLOGY**

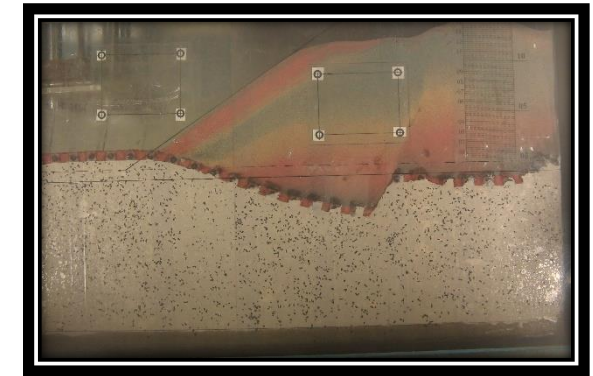


ON THE OCCASION OF  
NATIONAL ENGINEER'S DAY

offers

**VALUE ADDED COURSE**

on



**RECENT TRENDS IN GEOTECHNICAL  
AND HYDRAULIC ENGINEERING**

during

September 15<sup>th</sup> – October 7<sup>th</sup>, 2021

## Target Participants

The course is open to all the students of the University. The students from any department, who are keen to learn programming may join the course.

## Registration

Participants need to register themselves on the following link on or before 16<sup>th</sup> September 2021.

Link of online registration:

<https://forms.gle/SSXwR9WTteV6HVB56>

Participants can also Scan QR Code for registration:



## Important dates and details

- **Duration:**  
30 Hours (18<sup>th</sup> Sept -1<sup>st</sup> October 2021)
- **Last date of registration on Google Form:**  
16<sup>th</sup> September 2021
- **Venue:**  
ZOOM Platform  
<https://us02web.zoom.us/j/87102090632>
- **Course FEE:**  
No registration fee for participation. E-certificates will be given to all registered participants who attend all the sessions on successful completion of the course

## Patron

**Prof. Dinesh Kumar**  
Vice Chancellor,  
JCBUST, YMCA, Faridabad

## Co-Patron

**Dr. Sunil Kumar Garg**  
Registrar,  
JCBUST, YMCA, Faridabad

## Program Chair

**Prof. Komal Kumar Bhatia**  
Dean (Faculty of Informatics) & Chairman (CE)

**Prof. Manjeet Singh**  
Chairman (CA)

## Program Coordinators

Dr Poonam, Assistant Professor (CE)  
Dr Amita Arora, Assistant Professor (CE)  
Dr Ashlesha Gupta, Assistant Professor (CE)

## Convener

Dr. Deepika Punj, Assistant Professor (CE)  
Dr Manvi, Assistant Professor (CA)  
Dr Payal Gulati, Assistant Professor (CE)

## Organizing Committee

Dr Mamta Kathuria, Assistant Professor (CA)  
Dr Preeti Sethi, Assistant Professor (CE)  
Dr Rashmi Popli, Assistant Professor (CE)  
Dr Sonali Gupta, Assistant Professor (CE)  
Dr. Sushil Kumar, Assistant Professor (CE)  
Dr. Umesh Kumar, Assistant Professor (CE)  
Sh. Piyush Gupta, Assistant Professor (CE)  
Ms. Shivi Garg, Assistant Professor (CE)  
Ms. Shilpi, Assistant Professor (CE)  
Ms. Monika Gupta, Assistant Professor (CE)  
Ms. Raveena, Assistant Professor (CE)  
Ms. Aayushi, Assistant Professor (CE)  
Ms. Shikha Gupta, Assistant Professor (CE)  
Ms. Ayyu Gupta, Assistant Professor (CE)



## Value-Added Course

on

# “ CODING FOR BEGINNERS USING PYTHON ”

Specially designed for beginners in  
Programming

organized by

**Faculty Of Informatics and Computing**

**18<sup>th</sup> Sept-1<sup>st</sup> Oct, 2021**



**J.C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA,  
FARIDABAD**  
(A Haryana State Government University)

**Accredited 'A' Grade by NAAC**  
NH- 2, SECTOR-6, MATHURA ROAD, FARIDABAD

## Aim of Course

The objective of this value-added course is to provide the technical foundation level training to the students so as to enable their immediate and effective participation in coding Projects. The course is aimed at digging deep into programming basics with the help of Python. It will present the foundation concepts of programming and software code organization. The course will encapsulate comprehensive theoretical knowledge and hands on practice in Python programs using different data structures. Python is used for a range of applications in industry and academia, including deep learning, machine learning, image and video processing, signal processing and computational statistics. The course will provide a forum to the students to encourage and exchange ideas, develop coding interests and motivate them to develop projects as per market demands.

## Prerequisites and Dependencies

Since this is a course for newbies, there is no particular entry requirements. However, students are expected to have elementary knowledge of mathematical and algorithmic logics and to be able to learn how to understand programming code.

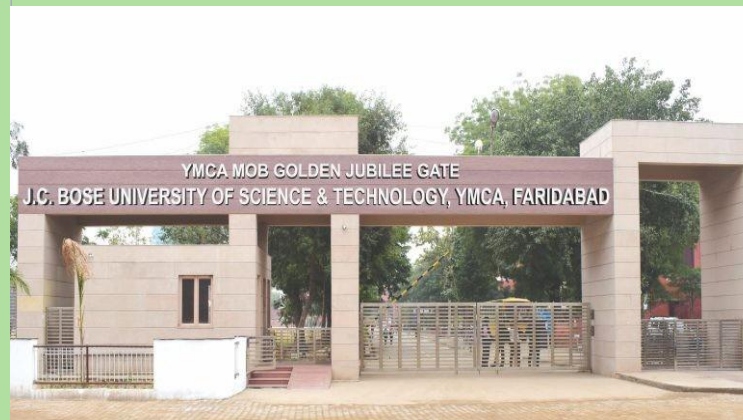
## Learning Outcomes

**At the end of the course, participants will be able to:**

- Write, compile and debug programs in Python and use different data types for writing the programs.
- Identify the optimized algorithm and technology needed to develop any application
- Create a programmable model for a given problem.
- Understand the various research opportunities and challenges in the field of AI and ML.
- Actively participate and contribute as a team member to address some market projects.

## About J. C. Bose University of Science and Technology, YMCA

J.C.Bose University of Science and Technology, YMCA, formerly known as YMCA University of Science and Technology, has exerted a great deal of effort for promoting the Technical Education in the State and the Country at large over the past five decades since its inception as an Indo German project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project and RUSA Scheme of MHRD, GoI. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, we have 100% placements on and off campus. The University offers B.Tech programs in almost all disciplines and has also added new chapters in its glorious history i.e. MBA, MCA, M.Tech, M.Sc, M.A. (Mass Communication and Journalism), B.Sc Hons, BCA, BBA, B.Sc (Animation & Multimedia) and Ph.D.



## About Department of Computer Engineering

The Department of Computer Engineering aims to promote academic growth by offering high quality UG, PG and Doctoral programmes. The department established in 1991, currently offers B.Tech courses in CE ,IT, Data Science and M. tech courses in CE, IT. The doctoral programme was started in 2010. The Department has well trained and research oriented faculty members. The department has modern and state of the art laboratories. The department also encourages the students to engage in extra curricular and co-curricular activities, essential for development, nurturing team spirit and developing organizational skills. The department has organized number of seminars, FDPs, Value added Courses on latest technologies in the past.

## About Department of Computer Applications

The Computer Applications Department aims to make a place at both national and international level by producing high quality ethically rich computer application engineers conversant with the state-of-art technology with the ability to adapt the upcoming challenges in information technologies and their applications to cater to ever changing industrial and societal needs. The department offers BCA and MCA.

## About the Expert



Mr. Mohit Kumar is Data Scientist and Machine Learning Expert at Jubilant Foodworks, Bangalore. He holds a Master Degree in Business Analytics Domain from Indian Institute of Science Bangalore with expertise in Applied Statistics, Data Mining Techniques, Time Series Analysis, Recommendation System, Machine Learning and Deep Learning Algorithms.



**J.C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY, YMCA, FARIDABAD**

(A Haryana State Government University)

(Established By Haryana State Legislative Act No. 21 of 2009 & Recognized by U.G.C. Act 1956 u/s 22 to Confer Degree)

**Accredited "A" Grade by NAAC**

**Ten days Value Added Course**

**on  
"VEDIC MATHEMATICS"**

(18<sup>th</sup> October 2021 to 28<sup>th</sup> October 2021)

**CHIEF GUEST**



**SH. ATUL KOTHARI**  
(National Secretary)

Shiksha Sanskriti Utthan Nyas, New Delhi

**PATRON**



**PROF. DINESH KUMAR**  
(Vice Chancellor)

J.C. Bose Univ.. of Science & Technology, YMCA, Faridabad

**CO-PATRON**



**DR. SUNIL KUMAR**  
(Registrar)  
JCBUST, YMCA

**CO-PATRON**



**DR. ASHUTOSH DIXIT**  
Dean (Faculty of Sciences)  
JCBUST, YMCA

**CONVENER**



**DR. KOMAL BHATIA**  
(Professor & Chairperson)  
Deptt. of Comp. Engg.  
JCBUST, YMCA

**CONVENER**



**DR. NEETU GUPTA**  
(Professor & Chairperson)  
Deptt. of Mathematics  
JCBUST, YMCA

Organised by:

**Department of Mathematics**

**Department of Computer Engineering**

in collaboration with

**Shiksha Sanskriti Utthan Nyas, New Delhi**

Sponsored by:

**All India Council for Technical Education (AICTE)**

## About the Value added course

"Vedic Mathematics" is a collection of ancient tricks and techniques to execute arithmetic operations quickly and more efficiently. Vedic Mathematics is a system of reasoning and mathematical working based on ancient Indian teachings. It comes from the Vedas, more specifically the Atharva Veda. The base of Vedic mathematics is the sixteen sutras which attribute a set of qualities to a number or a group of numbers. "Vedic Mathematics" introduces the wonderful applications to arithmetic computations, theory of numbers, complex multiplications, algebraic operations, factorizations, simple quadratic and higher order equations, simultaneous quadratic equations, partial fractions, calculus, squaring, cubing, square root, cube root and coordinate geometry etc. The experts of Vedic Mathematics will teach its concepts and applications in arithmetic, algebra and geometry. The main objective of the course is to understand & comprehend the basic ideas, principles, methods & algorithms using some sutras of Vedic ganit as well as to understand some glorious facts from history of Bharatiya ganit.

## Resource Persons



**Sh. Rakesh Bhatia**  
(National Co-Coordinator)  
SSUN, New Delhi



**Dr. Shriram Chauthaiwale**  
(Retd.) Lecturer  
Amravati University, Maharashtra



**Dr. Kailash Vishwakarma**  
(Associate Professor)  
BN PG College Rath, Hamirpur



**Prof. Dinesh Madan**  
(Deptt. of Mathematics)  
CBLU, Bhiwani



**Prof. Neetu Gupta**  
(Deptt. of Mathematics)  
JCBUST, YMCA, Faridabad



**Prof. Ashish Arora**  
(Deptt. of Mathematics)  
IKGPTU, Jalandhar



**Dr. Anuradha Gupta**  
(Associate Professor)  
DCAC, DU, New Delhi

## About the University

J.C. Bose University of Science and Technology, YMCA, Faridabad (erstwhile YMCA University of Science and Tech., Faridabad erstwhile YMCA Institute of Engg., Faridabad) was established in the year 1969, as a joint venture of the National Council of YMCA of India, Govt of Haryana, and the Central Agencies for Development Aid, Bonn, Germany. It started as an Indo-German project with an aim to impart technical education to a developing India on German pattern. In 1996, State Govt. of Haryana took complete control of the Institute and upgraded it to University status in December 2009. The university offers Graduate, Post-Graduate and Ph.D. course in different disciplines. The salient features of German education have been retained & as such the University stands apart from other colleges of Haryana. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. The University is situated on National Highway 2 Mathura Road, 30 km from National Capital, Delhi. The University campus is located in the sprawling Faridabad-Ballabgarh Industrial complex. The sophisticated equipments/machines in the workshops and laboratories enable the students to operate various machines independently so as to acquire thorough knowledge and develop competence in their respective skills.

## Department of Mathematics

Department of Mathematics is one of the important pillars 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. The university through its Department of Mathematics seeks to explore and envisage a programme where the most frontline problems and precepts in mathematics will be used to evoke the curiosity nascent in the youngest minds. 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. The M.Sc. (Mathematics) course is running since 2010 and in 2018, the department has started a new undergraduate course B.Sc. honors in Mathematics. The department also offers Doctorate degree in various fields of Mathematics.

## Department of Computer Engineering

It has always been a nursery of computer engineers catering to the needs of the industry of the nation in general and NCR region in particular. In 2002, consciously, the department started a PG program in computer engg. with a vision to produce conceptually correct teachers. The hallmark of the department is research. It has 23 PhD and the remaining are putting their best efforts in exploring new areas. There is strong group of aspirants who interestingly work in the field of internet technologies. Another group is effectively engaged in software engineering and MANETS. The department especially the faculty members take pains to shape the character of our students with consistent effort towards sincerity, punctuality, honesty and hard work.

## Course Content

- > Introduction and history of Vedic Mathematics
- > Cross digit sum to check the addition & multiplication
- > Sum, Difference, Multiplication & division by using sutra
- > Duplex in arithmetic and algebra
- > Sum and difference of squared numbers
- > Journey of Ancient Mathematics
- > Square, Cube, Square & Cube root
- > Baudhyan numbers
- > Factorization of quadratic and cubic expressions
- > Solutions of simple & simultaneous linear equations
- > Highest common factors
- > Bhaskracharya-II and Aryabhata

## Registration

<https://forms.gle/UiQJpicTCqu4ygrV6>

*There is no registration fee, the course is for the students, research scholars and faculty members.*

## Last Date for Registration

**17<sup>th</sup> October'2021 (Upto 5:00 p.m.)**

## Join us at Zoom

**Meeting ID: 884 4564 4589**

**Or join using link**

**<https://us02web.zoom.us/j/88445644589>**

## Chief Guest

**Sh. Atul Kothari**  
National Secretary  
Shiksha Sanskriti Utthan Nyas

## Co-Patron

**Dr. Sunil Kumar Garg**  
Registrar  
JCBUST, YMCA, Faridabad

## Convener

**Prof. Neetu Gupta**  
Chairperson  
Department of Mathematics

## Coordinator

**Dr. Parveen Kumar**  
Assistant Professor  
parveengaur@jcbosust.ac.in  
9416526411, 9992500740

## Patron

**Prof. Dinesh Kumar**  
Vice Chancellor  
JCBUST, YMCA, Faridabad

## Co-Patron

**Dr. Ashutosh Dixit**  
Dean (Faculty of Sciences)  
JCBUST, YMCA, Faridabad

## Convener

**Prof. Komal Bhatia**  
Chairperson  
Department of Comp. Engg.

## Co-Coordinator

**Dr. Manu Rohilla**  
Assistant Professor  
mrohilla@jcbosust.ac.in  
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## Organising Committee

- Dr. Reena Garg**, Assistant Professor, Department of Mathematics  
**Dr. Arpita Chatterjee**, Assistant Professor, Department of Mathematics  
**Dr. Ramu Dubey**, Assistant Professor, Department of Mathematics  
**Mr. Abhishek**, Assistant Professor, Department of Mathematics  
**Dr. Suraj Goyal**, Assistant Professor, Department of Mathematics  
**Dr. Pooja Gupta**, Assistant Professor, Department of Mathematics  
**Mr. Kuldeep**, Assistant Professor, Department of Mathematics  
**Dr. Amita Arora**, Assistant Professor, Department of Computer Engg.  
**Dr. Poonam**, Assistant Professor, Department of Computer Engg.  
**Dr. Shashi Sharma**, Assistant Professor, Department of Mathematics



# J. C. BOSE University of Science and Technology, YMCA, Faridabad

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Co-coordinator, Sports

**Dr. Shailender Gupta**  
Coordinator, Sports

**Dr. Anuradha Pillai**  
Deputy Dean - Student Welfare & Program Chair

**Prof. Lakhwinder Singh**  
Dean - Student Welfare & Program Advisor



**Organized By:**  
**Dean Student Welfare Office**  
J. C. Bose University of Science and Technology, YMCA, Faridabad

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