

Brochure of Value-added courses: 2018-19

INDEX

S. No.	Value-added course	Page No.
1.	Cement, Building Materials and their Testing	2
2.	Workshop on Basic Electrical & Home appliances	3
3.	Workshop on 3D Printer	4
4.	Workshop on Advance Networking	5
5.	Recycling of Organic Wastes and Organic Farming Practices	6
6.	PROGRAMMING USING PYTHON	8
7.	NEW FRONTIERS IN CHEMICAL SCIENCES	9
8.	IPR: Current Scenario and R Programming & Statistics	10
9.	Smart Material and Integrated Circuits	11

Patron
Prof. Dinesh Kumar
Vice Chancellor

Advisor
Prof. Tilak Raj, Dean FET

Programme Chair
Dr. M.L. Aggarwal
Chairman Civil Engineering

Coordinators
Dr Krishan Kumar
Assistant Professor

Organizing Committee

Dr Ashutosh Saxena, NCB
Prof. K.N.Jha, IIT Delhi
Prof. D R Sahoo, IIT Delhi
Prof. A.K. Neema, IIT Delhi
Prof. Parveen Aggarwal, NIT K
Dr. Awadhesh Kumar, DTU
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Mr Sachin Das, DCRUST
Dr Arun Kumar, JCBUSTY, MCA
Dr Mahesh Chand, JCBUST, YMCA
Dr O P Mishra, JCBUST, YMCA
Sh. Ajay Taneja, JCBUST, YMCA

WORKSHOP OBJECTIVE

This is a value added course designed for providing latest building materials knowledge in design in Civil Engineering. Upon successful completion of this workshop, participants will be able to come across the potential of building materials technology for engineering applications.

CONTENTS

Engineering applications of building material testing will be covered in the field. The course contents will be covered through power- point presentations, interactive sessions, group discussions etc. Demonstration in laboratory shall be conducted to provide hands-on experience.

SPEAKERS

Faculties from NCB and eminent experts from industries will deliver lectures.

REGISTRATION & PAYMENT

Participation

The program is interdisciplinary and is open to students, from university /Institute/Engg. College/ Polytechnic, participants sponsored by engineering colleges/technical institutions authority. There is no fee for JCBUSTYMCA, TEQIP-III institutions and REC Ambedkar Nagar students.

Payment for other institution student /staff can be done either by cash or by demand draft of Rs.2000/- (in favour of Registrar JCBUSTYMCA Faridabad) per head on between 9:00 to 10:00 am on the inauguration day.

JCBUSTYMCA has been in existence for the past 49 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), etc.

The Department of Civil Engineering at JCBUSTYMCA 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.

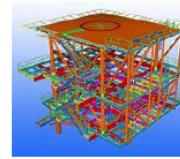
ADDRESS FOR COMMUNICATION

Dr. Arun Kumar
Assistant Professor
JCBUSTYMCA Faridabad- 121006
Tel: +919810971654(M)
E-mail: acadymca@rediffmail.com

IMPORTANT DATES

Last date for submission
of application form : Jan 1, 2019
Inauguration : Jan. 7, 2019(10.00AM)

**on
Cement, Building Materials and
their testing**



Jan. 7-11, 2019

Sponsored by



Organized by:

**Department of Civil Engineering
J C Bose University of Science and
Technology YMCA,
Faridabad - 121006, India**



Five Days workshop

on

Cement, Building Material and testing



Jan. 7-11, 2019

REGISTRATION FORM

1. Name: _____
2. Designation: _____
3. Date of Birth: _____
4. Category of Participation: _____
(a) Students _____
(c) Industry _____
5. Organization: _____
6. Address for Communication: _____

7. Email: _____
8. Telephone/Mobile No.: _____
9. Accommodation to be arranged your own.
10. Gender (Male/Female):

Date: _____ **Signature of Applicant**

Interested candidates can pre-register by sending the filled application form by e-mail.

**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 on Basic Electrical

& Home appliances

5 November- 2018 - 10 November 2018

4

**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 on 3D Printer

5 November- 2018 - 10 November 2018

5

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 on Advance
Networking

5 November- 2018 - 10 November 2018

6

Value Added Course
‘Recycling of Organic Wastes and Organic Farming Practices’

(29th September - 27th October, 2018)

Patron

Prof. Dinesh Kumar

Hon'ble Vice-Chancellor, JC Bose UST YMCA Faridabad

Program Chair

Prof. Ashutosh Dixit

Chairman, Department of Environmental Sciences
JC Bose UST YMCA Faridabad

Program Coordinator

Dr. Renuka Gupta

Faculty Incharge, Department of Environmental Sciences
JC Bose UST YMCA Faridabad

Organized by



Department of Environmental Sciences
J.C. Bose University of Science & Technology YMCA
Faridabad

(NAAC Accredited Grade 'A' State Government University)
Sector 6, Mathura Road, NH-2, Faridabad (Haryana) 121006

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

The J.C. Bose University of Science and Technology, YMCA 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. The Institute has been granted University status since 2009. The Department of Environmental Sciences at J.C. Bose University of Science and Technology YMCA Faridabad was established in 2018 by offering two years post-graduate program M.Sc. Environmental Sciences and Ph.D. program in Environmental Sciences. The Department is committed to provide the quality education in the area of Environmental Sciences to transform students into graduates with high professional skills and values.

Aim of Value Added Course

The aim of this value-added course is to inculcate knowledge and hands-on-training on various methods of Organic Waste Recycling, viz., composting and vermicomposting as a mean to recover nutrients from organic waste and returning them to the environment. This value-added course will also give an overview of organic farming practices.

The difficulty and cost-related constraints associated with achieving sustainable food production through effective soil and crop management practices has led to a paradigm shift from inorganic farming to organic farming, where agricultural wastes are incorporated into the production systems. Organic farming applies natural principles for improved quality and quantity of crop produce while maintaining and/or improving soil health.

Course Content

The Value-added course contains the following topics, but not limited to:

- Sustainable waste Management practices
- Composting - What is compost, Why to Compost, Types of Composting
- Four bin composters for household waste, Commercial composter
- Home composting – Enclosed bins, Free standing Windrows
- NADEP composter at institute level
- Method of preparation of rotatory drum composter
- Hands on training for preparation of Rotary drum Composter
- Hands on training for Compost preparation
- How to set up vermicomposter- Hands on training on vermicomposting for household purpose
- Organic farming practices - Permaculture, Ranching, Hydroponics, Dryland Farming
- Scope and Growth of Organic Farming in India.

Course Outcomes

- The students will be able to learn various organic waste recycling methods to treat organic wastes and to reclaim valuable substances present in the wastes for possible reuses.
- The students will be able to contribute effectively in sustainable agricultural systems after knowing organic farming practices.

Who can attend?

The program's duration is 35hrs and is open to all M.Sc. Environmental Science students.

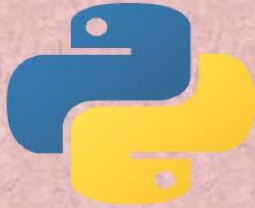
Registration Details

There is no registration fee. Registration is open from 25th Sept. to 28th September, 2018. The interested students may contact the coordinator to register themselves.

Contact Details

Course Coordinators: **Dr. Renuka Gupta**, Asst. Professor, Dept. of Environmental Sciences;

Value Added Course
on
"PROGRAMMING USING
PYTHON"
(07 - 11 JANUARY 2019)



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
PROGRAMME CHAIR
Dr. Neelam Turk Chairperson Department of Electronics Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad
ADVISORY COMMITTEE
Dr. S.K. Agarwal Electronics Engg. Deptt., J. C. Bose UST, YMCA
Dr. Munish Vashishath Electronics Engg. Deptt., J. C. Bose UST, YMCA
Dr. Pradeep Kumar Electronics Engg. Deptt., J. C. Bose UST, YMCA
Dr. Shailender Gupta Assistant Professor Electronics Engg. Deptt., J. C. Bose UST, YMCA
PROGRAMME COORDINATOR
Ms. Nitin Sachdeva (9999672733) Assistant Professor
Ms. Manju Kumari (9891659175) Assistant Professor Department of Electronics Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad Office contact No: 0129-2310110

Important dates and details

Duration:
9:00am to 5:00pm daily (40 Hours)
(07 January – 11 January 2019)

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

Course Fee:
No registration fee for participation. Certificates will be given to all the participants on successful completion of the course.

Participation

The program is interdisciplinary and is open to faculty, technical staff and students from the university. (Max. limit 200 Participants only)

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 registration form. The duly filled registration form recommended by competent authority should reach the coordinator latest by January 03,2019. No application fee is required for registration.



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

(A Haryana State Government University)
Accredited Grade 'A' by NAAC
Value Added Course on
"PROGRAMMING USING PYTHON"
(07 January - 11 January 2019)

Organized by
Department of Electronics Engineering

Registration Form

Name: _____
Qualification: _____
Staff/ Student: _____
Designation: _____
Department/ Branch: _____
Address: _____
Mobile No.: _____
Email: _____

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 consist 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

Python is developed by Guido van Rossum. Guido van Rossum started implementing Python in 1989. Python is named after the comedy television show Monty Python's Flying Circus. There are so many applications of Python like Web development, Machine learning. Machine learning is a way to write a logic so that a machine can learn and solve a particular problem on its own. For example, products recommendation in websites like Amazon, Flipkart, eBay etc. is a machine learning algorithm that recognizes user's interest. Face recognition, Voice recognition, Data analysis, data visualization, Scripting, Desktop applications, and Game development can be developed using Python.

Course Content

Python is a very simple programming language so even if anyone is new to programming, they can learn python without facing any issues. The course covers programming details, and the contents are

as given below:

- What Is a Python
- Running Python Software
- Arithmetic Operators
- Values and Types
- Formal and Natural Languages
- Functions
- Variables, Expressions, and Statements
- Case Study: Interface Design
- Conditionals and Recursion
- Strings
- Lists
- Dictionaries
- Tuples
- Files
- Classes and Objects
- Classes and Functions
- Classes and Methods
- Inheritance
- Analysis of Algorithms
- Iteration
- Exercises

Course Outcomes

The purpose of the course is to make the participants to:

- Master the fundamentals of writing Python scripts
- Learn core Python scripting elements such as variables and flow control structures
- Discover how to work with lists and sequence data
- Write Python functions to facilitate code reuse
- Use Python to read and write files
- Make their code robust by handling errors and exceptions properly
- Work with the Python standard library
- Explore Python's object-oriented features
- Search text using regular expressions

Patron

Prof. Dinesh Kumar
(Vice Chancellor)

Chairman

Dr Raj Kumar
(Department of Chemistry)

Convener

Dr Bindu Mangla
(Asstt Prof Department of Chemistry)

Registration Form

Name: _____
Roll No.: _____
Department: _____
Institution: _____
Mobile No.: _____
Email: _____

Applicant's Signature

**J C Bose University of Science and
Technology, YMCA, Faridabad**
Department of Chemistry
Organizing
VALUE ADDED COURSE
On
NEW FRONTIERS IN CHEMICAL
SCIENCES
(Session 2018-19)



(Registrations open)

Convener

Dr Bindu Mangla

Email: bindumangla@ymcaust.ac.in
Ph: 0129-2310115

Co-Coordinator

Dr Sita Ram

Website - www.ymcaust.ac.in

About the Program:

The value added course has been designed to introduce the participants to newest topic of research in Chemistry. A special training session on Atomic Force Microscopy will introduce the young minds to latest technology of characterization. Participants will face the actual experimental situation in lab and work out to achieve the goal.

About the Department:

Department of Humanities and Science, YMCA University of Science and Technology, added the courses of UG, PG and PhD in various subjects with the finest faculty members to enlighten the path of bright minds in the goal of development of the country. The objective of the department is to equip students with interdisciplinary techniques and skills so that they can contribute in achieving innovative and indigenous solutions to scientific problems related to our society.

About the University

J. C. Bose University of Science and Technology, YMCA, Faridabad - formerly YMCA University of Science and Technology, has been accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade. The University was founded as an institute in 1969 as an Indo-German project, a joint venture of the National Council of YMCA India, the Government of Haryana and the Central Agencies for Development Aid, Bonn, Germany. In December 2009 it was awarded the status of State University by the State Government. 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. Many of them are entrepreneur with names of repute at national and international level establishes the same. 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 (Physics, Maths, Chemistry & Environmental Sciences), M.A. (Mass Communication and Journalism), B.Sc Hons. (Physics, Maths, Chemistry), BCA, BBA, B.Sc (Animation & Multimedia) and Ph.D.



PATRON
Prof. Dinesh Kumar
(Vice-Chancellor, JCBUST)

CO PATRON
Prof. Sanjay Sharma
(Registrar, JCBUST)

ADVISOR
Prof. Raj Kumar
(Dean, Faculty of Sciences, JCBUST)

J.C. Bose University of Science and
Technology, YMCA, Faridabad
Sector 6, NH-2, Mathura Road
Website - www.ymcaust.ac.in

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

Organizing
Value added course
On

“IPR: Current Scenario and R Programming
& Statistics”
15th April 2019 – 20th April 2019

Name: _____

Roll No.: _____

Department: _____

Branch: _____

Institution: _____

Years of Experience: _____

Area of Interest: _____

Address: _____

Mobile No.: _____

Email: _____

Website - www.ymcaust.ac.in

Date: _____

(Late date to apply: 10th April 2019)

Applicant's Signature

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

On
“IPR: Current Scenario and R Programming
& Statistics”
15th April 2019 – 20th April 2019
Organised By: Department of Mathematics



(Registrations are open for all Branches)

Convener & Head of Department
Dr. Neetu Gupta

Coordinator
Dr. Reena Garg
Mob. No. – 9899390778
Email: reenagargymca@gmail.com

**About the YMCA University of Science and
Technology, Faridabad**

YMCA University of Science and

Technology, Faridabad has been accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade and a CGPA of 3.08 in the First Cycle of Accreditation. YMCAUST was established in 1969 as an Indo-German project, a joint venture of the National Council of YMCA India, the Government of Haryana and the Central Agencies for Development Aid, Bonn, Germany. In December 2009 it was awarded the status of state university by the State Government. 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. Many of them are entrepreneur with names of repute at national and international level establishes the same. The university has also added new chapters in its glorious history i.e. MBA, MCA, 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) and Ph.D.

About the Department

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. From the construction of pyramids, to precision architecture in temple building, to coding enigmas, mathematics has guided and steered the other fields- continuing the leadership in digital era. We probe areas where mathematical tools could be developed and used for problem-solving. From abstract and theoretical mathematics to mathematics in our daily lives, this subject has a panoramic importance for mankind

About the Program

The course aims to develop the understanding of aspects of computational techniques. It is an outstanding platform to discuss the key ideas, novel ideas, listening to eminent speakers and sharing experiences with peer groups. It will provide opportunities to undergraduate and postgraduate students to pursue research in mathematics..

Objectives of Program

The learning objectives of the course are as follows:

- Understand various computation techniques
- Understand Intellectual Property Rights
- Current Scenario of IPR
- Understanding R
- Various techniques of R
- Solving mathematical & statistical problem using R

Target Participants

We welcome all the students of University to be a part of learning the electronics, designing, coding in depth both at knowledge level, practical in mind and values.

Registration Form (As per prescribed format) Application should be made on the registration form in the prescribed format only. Brochure with registration form can also be downloaded from the university website:

www.ymcaust.ac.in. Candidates are required to send the scanned copy of prescribed registration form at reenagargymca@gmail.com on or before 25th June, 2016. (Original Registration Form duly completed has to be submitted on registration desk at the time of reporting) Fee There is no registration fee, for participating in this course. Important Dates Last date of Registration: 10th April 2019 Intimation of Confirmation: 12th April 2019 For any Query please contact:

Dr. Reena Garg (Coordinator)
Mob. No. – 9899390778
Email: reenagargymca@gmail.com

Ms. Nisha Singh
Mob. No. – 9818809102
Email: nishu1may@gmail.com

Dr. Arpita Chatterjee
Mob. No. – 8527635535
Email: arpita.sps@gmail.com

About the University

J. C. Bose University of Science and Technology, YMCA, Faridabad has been accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade and a CGPA of 3.08 in the First Cycle of Accreditation. YMCAUST was established in 1969 as an Indo-German project, a joint venture of the National Council of YMCA India, the Government of Haryana and the Central Agencies for Development Aid, Bonn, Germany. In December 2009 it was awarded the status of state university by the State Government. 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. Many of them are entrepreneurs with names of repute at national and international level establishes the same. The university has also added new chapters in its glorious history i.e. MBA, MCA, 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) and Ph.D.

Department of Physics

Department of Physics objective is to impart education, combined with innovative thinking, application of knowledge, inculcating professional ethics and consciousness to social responsibilities in the integrated form. The motive of the department is to make a strong foundation on a wide base of knowledge, which includes the elements of a professional, subjective, practical and spiritual base. The department of Physics is offering B.Sc.(Hons.) Physics, M.Sc. Physics, and Ph.D. courses.

Organizing Team:

Prof. Dinesh Kumar (ViceChancellor),
Prof. Rajkumar (Dean of Sciences)
Prof. Ashutosh Dixit (Chairperson, Physics Department)
Dr. Anuradha & Dr. Sonia Bansal

(Convener)

About the Program:

Smart materials are used to construct these smart structures, which can perform both sensing and actuation functions. Learn more about the growing role of IC design innovation in digital transformation. The IC is the heart of modern electronic innovation hastening the push for digitalization. Manufacturing Software. PLM integration. PCB Systems Design.

Objectives of Program are:

- Learn about Basics of Smart Materials
- Development & Fabrication of Integrated Circuits
- Characterization of Integrated Circuits
- Application of Nanomaterials
- Hands on Training on Instruments

Application Form

Smart Material and Integrated Circuits
(22nd-27th Nov. 2018)

Name: _____

Roll No: _____

Mobile No.: _____

Email: _____

Website - www.jcboseust.ac.in

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



Department of Physics
Organizing
Value added course

Smart Material and Integrated Circuits

(22nd-27th Nov. 2018)



Convener

Dr. Anuradha Sharma

Dr. Sonia Bansal

Contact Us Dr. Sonia Bansal #9013162800,

Email: soniabansal@jcboseust.ac.in

J. C. Bose University of Science and
Technology, YMCA, Faridabad
Sector 6, NH-2, Mathura Road
Website - www.jcboseust.ac.in