



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2021

Date: 05/06/2021

CIRCULAR

Many a times, the defined skill sets that are being imparted to students today with Programme Specific Objectives in educational institutions become redundant sooner than later due to rapid technological advancements. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Hence a Value Added Course is offered by Department of School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is **Certification Course on MAT lab Programming skills** with the duration of 30 hours (Two hour per day) and commences from **13/06/2021 to 03/07/2021(online)**.

Eligibility: Course is open for UG Students for Department School of Civil and Infrastructure Engineering.

Registration:

The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 5 days before the commencement of course.

Contact:

Ms.R.Chitra

Assistant Professor / School of Civil and Infrastructure Engineering.,

Course Coordinator

Bharath Institute of Higher Education & Research.

Email id: chitra.civil@bharathuniv.ac.in

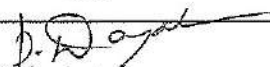
HOD

Head of the Dept.
(Civil Engineering)
Bharath Institute of Higher
Education & Research,
Selaiyur Chennai - 600 073.

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING
VALUE ADDED COURSE - CERTIFICATION COURSE ON MAT LAB PROGRAMMING
SKILLS
STUDENTS NAME LIST

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U15CE001	AADARSH KUMAR BHARDWAJ S	Aadha2012@gmail.com
2	U15CE002	ABDUL RAHMAN S A	raman18@gmail.com
3	U15CE003	ADITYA KUMAR RAJ	kumar147@gmail.com
4	U15CE004	AJIS KUMAR M	ajis@gmail.com
5	U15CE005	ANUJ YADAV	anuj yadav 406@ Gmail.com
6	U15CE006	ARAVINDAN D	arvnf@gmail.com
7	U15CE007	ARUN K	arun505@gmail.com
8	U15CE008	ARUN YOMSO	yomso316@gmail.com
9	U15CE009	AVULA UDAY KIRAN	udhyakiran46@gmail.com
10	U15CE010	BADUGU MANI BABU	manibabu949@gmail.com
11	U15CE011	BAJOPSKHEMLANG RYNTATHIANG	rtytaniang333@gmail.com
12	U15CE012	BAKKANOLLA MOHAN REDDY	mreddy@gmail.com
13	U15CE013	BELLAMKONDA LEELA MOHAN	mohan1999@gmail.com
14	U15CE014	BOYA NARESH	oya naresh v30@gmail.com
15	U15CE015	BUNGCHA MOIRANGTHEM	moirangthem 117@gmail.com
16	U15CE016	CHALLA BHAGAVAN	bhagavan 91@gmail.com
17	U15CE017	DABBADI ABHINAY KUMAR	ABHINAY KUMAR @gmail.com
18	U15CE018	DEIMONMITRE DKHAR	dkar69@gmail.com
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23	U15CE024	EDEGABODDU NARASIMHA	rockzz371@gmail.com

		RAVITHEJA	
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26	U15CE027	GANESH R	ganesh62@gmail.com
27	U15CE028	GARAPATI LALITHKISHOR	lathi4181@gmail.com
28	U15CE029	GOLLAPALLI VISHNUVARDHAN REDDY	rp7842197222@gmail.com
29	U15CE030	GOWTHAM L	gowtham664@gmail.com
30	U15CE031	GUDETTI KEERTHANA	keerthina689@gmail.com
31	U15CE032	HARIS REYAZ	Hari56@gmail.com
32	U15CE033	HEMACHANDRAN	hemaran@gmail.com
33	U15CE034	IAISHAH SUCHIANG	UCHIANG192@yahoo.com
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36	U15CE037	JAWIDHUSSAIN J	jawhussan@gmail.com
37	U15CE038	JAYAPRABAKAR V	jayaprabakar V@gmail.com
38	U15CE039	JAYASOORYA V	jayasoorya v@gmail.com
39	U15CE040	JIJOWILSON	Jijowilson96@gmail.com
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43	U15CE044	KAVITHA T	Sairam43@gmail.com
44	U15CE045	KISHOTH R	Kisthori95@gmail.com
45	U15CE046	KODANDA BHEEMESHKUMAR ROYAL	Royolenfield95@gmail.com
46	U15CE047	KSHETRIMAYUM WANGLEN SINGH	Singh1996@gmail.com
47	U15CE048	LALAM SRI MOHAN MANIKANTA	Maniym95@gmail.com
48	U15CE049	LINGESH P	Lingeshwaran95@gmail.com


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Sharath

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Topic: Certification Course on MATLAB Programming skills

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Building Materials

Course Duration: 30 hours (13th June '2021)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the civil infrastructure development

Coordinators: Ms.R.Chitra

Objective:

1. Find Roots of non-linear equations by Bisection method and Newton's method.
2. Do curve fitting by least square approximations.
3. Solve the system of Linear Equations using Gauss - Elimination/ Gauss - Seidal Iteration/ Gauss - Jordan Method.
- 4) To Integrate Numerically Using Trapezoidal and Simpson's Rules
- 5) To Find Numerical Solution of Ordinary Differential Equations by Euler's Method, Runge-Kutta Method.
- 6) To create the awareness and comprehensive knowledge in numerical solutions

COURSE OUTLINE:

This course teaches computer programming to those with little to no previous experience. It uses the programming system and language called MATLAB to do so because it is easy to learn, versatile and very useful for engineers and other professionals. MATLAB is a special-purpose language that is an excellent choice for writing moderate-size programs that solve problems involving the manipulation of numbers. The design of the language makes it possible to write a powerful program in a few lines. The problems may be relatively complex, while the MATLAB programs that solve them are relatively simple: relative that is, to the equivalent program written in a general-purpose language, such as C++ or Java. As a result, MATLAB is being used in a wide variety of domains from the natural sciences, through all disciplines of engineering, to finance, and beyond, and it is heavily used in industry. Hence, a solid background in MATLAB is an indispensable skill in today's job market.

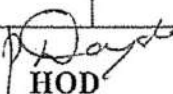
Nevertheless, this course is not a MATLAB tutorial. It is an introductory programming course that uses MATLAB to illustrate general concepts in computer science and programming. Students who successfully complete this course will become familiar with general concepts in computer science, gain an understanding of the general concepts of programming, and obtain a solid foundation in the use of MATLAB. Students taking the course will get a MATLAB Online license free of charge for the duration of the course. The students are encouraged to consult the eBook that this course is based on. More information about these resources can be found on the Resources menu on the right.

Value Added Course

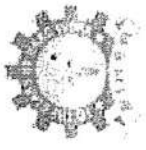
Certification Course on MATLAB Programming skills

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Find the Roots of Non-Linear Equation Using Bisection Method	2	10.45 am to 12.45am	13.06.21	Ms.R.Chitra
2	Find the Roots of Non-Linear Equation Using Newton's Method	2	02.00 pm to 04.00 pm	14.06.21	Ms.R.Chitra
3	Curve Fitting by Least Square	2	10.45 am to 12.45am	15.06.21	Ms.R.Chitra
4	Approximations solutions	2	02.00 pm to 04.00 pm	16.06.21	Ms.R.Chitra
5	Solve the System of Linear Equations Using Gauss	2	10.45 am to 12.45am	19.06.21	Ms.R.Chitra
6	Seidal Iteration Method.	2	02.00 pm to 04.00 pm	20.06.21	Ms.R.Chitra
7	Solve the System of Linear Equations Using Gauss	2	10.45 am to 12.45am	21.06.21	Ms.R.Chitra
8	Jorden Method.	2	02.00 pm to 04.00 pm	22.06.21	Ms.R.Chitra
9	Integrate numerically using Trapezoidal	2	10.45 am to 12.45am	23.06.21	Ms.R.Chitra
10	Rule. Integrate numerically using Simpson's Rules	2	02.00 pm to 04.00 pm	26.06.21	Ms.R.Chitra
11	Numerical Solution of Ordinary Differential Equations By Euler's Method.	2	10.45 am to 12.45am	27.06.21	Ms.R.Chitra
12	Numerical Solution of Ordinary Differential Equations ByRunge	2	02.00 pm to 04.00 pm	28.06.21	Ms.R.Chitra
13	Kutta Method.	2	10.45 am to 12.45am	29.06.21	Ms.R.Chitra
14	Partial Differential Equations	2	02.00 pm to 04.00 pm	30.06.21	Ms.R.Chitra
15	The Weak and Strong Formulation	2	10.45 am to 12.45am	3.07.21	Ms.R.Chitra


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DEEMED-TO-BE UNIVERSITY



NAAC

NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OF PARTICIPATION

This is to Certify that ARUN YAMESO, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Certification Course of MAT Lab Programming Skills** ' presented by **Tmt .R.Chitra, Assistant Professor, Organized by School of Civil & Infrastructure Engineering, BIHER from 13.06.2021 To 03.07.2021.**

Coordinator

Head of the Dept.
of Civil Engineering
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VALUE ADDED COURSE

Feedback Form

Event Name: MATLAB programming skills

Event Venue: Date: 13/6/2021 to 9/7/2021

Name of participant: KAPOOR. M

1. How useful did you think this event was for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1	2	3	4	✓ 5
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2. Value added course is useful and well organized.

YES ✓	NO
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3. Did you receive all the information you required at this Venue?

YES ✓	NO
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4. Would you like to attend any further Training Courses VAC

YES ✓	NO
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