SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru-562157

Department of Electrical and Electronics Engineering

INDEX SHEET FOR CRITERIA 1.2.1

Sl. No.	Name of SDP/Add on Program /Nptel/Swayam	Date (From-to)	Number of students enrolled for the Course
1	One Week Online Short Term Training Program On "Digital Signal Processing and its applications"	05th -10th July, 2021	20

CRITERIA COORDINATOR

HOD

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF
adevarayanagar, Hunasa
Via Yelahanka, Bangalore

Bengaluru,

30.06.2021

.

FROM

Mrs. Anchal Chapra,

Asst. professor, Dept. of EEE,

Sir M.VIT, Bengaluru.

TO

The Principal,

Sir M.VIT, Bengaluru.

Through

The HOD, Dept. of EEE,

Sir M.VIT, Bengaluru.

Respected Sir,

Sub: Seeking permission for organizing one week Students training program-Reg

The Dept. of EEE of Sir MVIT, would like to organize a One week short term training program through online mode from 05.07.2021 Monday to 10.07.2021 Saturday. The topic will be "Digital Signal Processing and its applications" which will be covering all the fundamentals of DSP and MATLAB based solutions in Signal and Image processing.

We humbly request you sir to permit for the same and do the needful.

Thanking you.

Yours Sincerely,

Anchal

(Mrs. Anchal Chapra)

Forwarded for kind approval

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF T...
...devarayanagar, Hunasa...
Via) Yelahanka, Bangalore-...

Approved by

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, BANGALORE-562 157

Sir M Visvesvaraya Institute of Technology

Krishnadevarayanagar, Bangalore-562157
Karnataka
Affiliated to VTU, Belagavi | Approved by AICTE | Accredited by NAAC UGC

Department of Electrical and Electronics Engineering

Organizes

A Five Day Online Short Term Training Program (STTP) on

Digital Signal Processing and its Applications (DSP&A-21)

July 05 - 10, 2021

About Sir MVIT

Sir M Visvesvaraya Institute of Technology is an Institute of repute in the state of Karnataka founded by Sri Krishnadevaraya Educational Trust in 1986. The institute offers nine B.E. degree programs in Civil, Mechanical, Electrical & Electronics, Electronics & Communication, Computer Science &Engg., Industrial Engineering & Management, Telecommunication, Information Science and Bio Technology and four Masters Programs in Computer Applications, Business Administration, Computer Integrated Manufacturing and Electronics.The Institute is affiliated to Visvesvaraya Technological University and approved by All India Council for Technical Education, New Delhi and is accredited by National Board of Accreditation, New Delhi. Sir MVIT is an ISO 9001:2008 Certified Institution. Department of Mechanical Engineering, Department of Electrical & Electronics Engineering, Department of Electronics & Communication Engineering and Department of Biotechnology are declared R&D centers by the university.
Sir MVIT is situated on a vast campus of 133 acres on the Bellary road near Air Force station, Yelahanka, With well qualified and motivated faculty, state-of-art laboratory facilities. For details see our website: https://www.sirmvit.edu/

About Department

Department of Electrical and Electronics Engineering was established in the year 1987. The department offers four year UG program (B.E). The department is recognized as a centre of excellence in the institute. The department offers a stimulating environment for the students to execute their in-house project works.

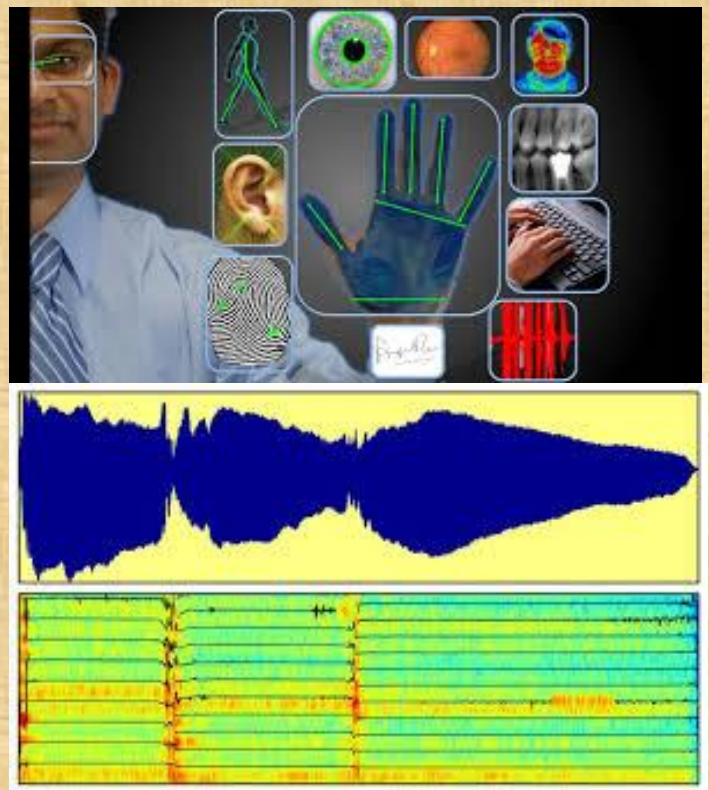
The department has a sound infrastructure with well facilitated laboratories and classrooms. The department has well qualified and dedicated faculties with vast experience and diverse specializations. The core competency is mainly in the area of power system, power electronics and drives, signal processing, VLSI, distributed generation systems, etc. Department was recognized as an R&D centre by VTU in the year 2002. The department has successfully carried out funded projects funded by various organisations.

Preamble

The field of Digital Signal Processing (DSP) is always driven by its applications and advances in its technologies. Hence, challenges are always imposed by them on implementations of DSP systems. Such implementations must deal with noise, latency, speed, cost, area and power constraints of real-time DSP applications. The goal of this STTP is to provide critical concepts in the understanding of the state-of-the-art digital system design and techniques used to filter the signals for applications like Audio, Image, Bio-medical etc. It will cover the concepts from fundamentals to advanced level of filter designing, giving thrust to implementation aspects of DSP filters.

Key Highlights

- This STTP focuses on concepts related analog and digital filter design and implementation.
- Online Lab Sessions related to MATLAB will be conducted.
- Code and PPT will be provided after successful completion.
- Real-time applications of DSP to fields such as biomedical, astro-physics, Audio, Images etc. will be demonstrated.



Course Content

This Program will cover the following content

- Introduction to Digital Signal Processing
- Basic commands of MATLAB and Installation procedure
- Analog and Digital Filter Design
- Hands-On Filter Design and Implementation
- Basics of Digital Image Processing
- Hands-On of Edge Detection filters on Images
- Basics of Audio signal Processing
- Hands-On of recording audio and filtering noise signal
- Bio-medical & Astro-physics Applications
- Demonstration of other applications

registration can be completed by filling the form available at https://forms.gle/wqrydSaZ6b46nCGz5

Join the whatsApp group by clicking the below link https://chat.whatsapp.com/ILC8QT7EPpX7f8R7f5BKSS
Last date for registration is July 2nd, 2021. Certificates will be provided to registered participants upon completion of course.

Speakers are:
1. **Dr. R Subha,** Associate Professor.
2. **Dr. Nayana B R,** Associate Professor
3. **Mrs. Sumalatha,** Assistant Professor
4. **Mrs. Rekha R,** Assistant Professor

ORGANIZING CHAIR
Dr V R Manjunath Principal, Sir MVIT

CONVENOR
Dr H L Suresh, Prof &Head of Dept of EEE

COORDINATOR

Dr. R Subha, Ph : 9480614932
Assosicate Professor subha_eee@sirmvit.edu

Dr.Nayana B R, Ph : 9480116483
Associate Professor nayana_eee@sirmvit.edu

CO-COORDINATORS

Mrs. Anchal Chhabra, Ph: 9900444922
Assistant Professor anchal_eee@sirmvit.edu

Mrs. Reshma T M, Ph: 9400299031
Assistant Professor reshma_eee@sirmvit.edu

DEPT. OF ELECTRICAL & ELECTRONICS ENGG.

Digital Signal Processing & Its Applications

Registration form

July 5th- 10th 2021

* Required

1. Name *

2. USN *

3. email-ID *

4. Mobile Number *

5. Branch *

Mark only one oval.

- EC
- CS
- IS
- BT
- TCE
- EEE
- ME
- IEM
- CV

6. Semester *

Mark only one oval.

- 2
- 4
- 6
- 8

Feedback Form

* Required

1. Email *

2. Full Name (To be displayed in the certificate) *

3. Organisation(To be displayed in the certificate) *

Vote of Thanks

Vote of Thanks - Mrs Anchal Chhabra

http://youtube.com/watch?v=c4YpmkIA_Z8

Feedback

4. The sessions gave an insight into the applications of Digital Signal Processing in different domains *

Mark only one oval.

- Strongly agree
- Agree
- Neutral

5. The sessions demonstrated the design of filters and its applications for real life applications *

Mark only one oval.

- ◯ Strongly agree
- ◯ Agree
- ◯ Neutral

6. The Speakers were able to create interest in the topics *

Mark only one oval.

- ◯ Strongly Agree
- ◯ Agree
- ◯ Neutral

7. Which session contents did you find useful and interesting? *

Check all that apply.

- ☐ Basics of MATLAB & DSP
- ☐ Filter Designing
- ☐ Image Processing
- ☐ Audio Processing
- ☐ other Applications

8. The SDP inspired me to identify my area of interest *

Mark only one oval.

- ◯ Strongly agree
- ◯ Agree
- ◯ Neutral

9. What are the key take aways from this SDP? *

_____

10. Would you prefer the any future SDP like "ML using Python" etc. to be in _____ *

Mark only one oval.

- ◯ 100% self paced mode
- ◯ 50% self paced and 50% online
- ◯ 100% online

11. Any feedback/Suggestions for Improvement

12. Overall Feedback *

Mark only one oval.

- Excellent
- Very Good
- Good
- Average

Day 3

* Required

Questionare

Session 5

Edge detection filters determines * 5 points

- ◯ Vertical edges
- ◯ Horizontal edges
- ◯ Curved edges
- ◯ All the above

Image is a 2D data * 5 points

- ◯ True
- ◯ False

Back Submit

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi/ VTU, Belgavi/NAAC/NIRF Rank Band :250-300

Krishnadevaraya Nagar, Bangalore 562157

Department of Electrical and Electronics Engineering

Certificate of Participation

This is to Certify that

Rishabh Aditya

from

Electrical and electronics

has participated in Five day online Short Term Training Program(STTP) on Digital Signal Processing and its Applications (DSP&A-21)from 5th July -10th July 2021.

Coordinator Dr. R Subha	Coordinator Dr. Nayana B R	Head of the Department Dr. H. L. Suresh	PRINCIPAL Dr. V. R. Manjunath

Krishnadevaraya Educational Trust

Sir M. Visvesvaraya Institute of Technology, Bengaluru-562 157

Department of Electrical and Electronics Engineering

AY: 2021-22

Sl. No	USN	STUDENT NAME	Enrolled for SDP/Course/ /Nptel Swayam etc	Date(from and to)
1	1MV18EE086	Sakshi.N	One Week Online Short Term Training Program On "Digital Signal Processing and its applications"	05th -10th July, 2021.
2	1MV17EE085	Tanya Girish		
3	1MV18EE084	RONIT BISWAS		
4	1MV18EE067	Pooja K		
5	1MV18EE104	SUSHMITHA SV		
6	1MV19EE412	Vijay kumar a m		
7	1MV18EE115	YASHWANTH GOWDA RJ		
8	1MV19EE413	Vishwas C		
9	1MV18EE064	Pavan Kumar GK		
10	1MV18EE098	SOUMYA GUPTA		
11	1MV18EE116	Yogesh Raju N R		
12	1MV18EE078	Rakshith BN		
13	1MV19EE411	SUNDARRAJ S R		
14	1MV16EE109	Tarun Kumar S		
15	1MV18EE112	Vivek v		
16	1mv18ee107	Vikram saini		
17	1MV18EE075	Rahul k		
18	1MV18EE066	Piyush kumar		
19	1MV18EE071	PRUTHVIRAJ S G		
20	1MV18EE060	Nidhi R		
	1MV18EE013	Anagha R		
	1MV18EE022	Arjun Kashyap GS		

Anchal

(Mrs.Anchal Chapra)

Coordinator- STP

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF
adevarayanagar, Hunasa
Vidyanagar, Bangalore-562

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi | Approved by AICTE| Accredited by NAAC UGC)

Off International Airport Road, Bengaluru – 562 157

Department of Electrical and Electronics Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that **Ms. ANAGHA R (USN: 1MV 18EE 013)** of EEE department of Sir MVIT has participated in the

One Week Online Short Term Training Program On

"Digital Signal Processing and Its Applications"

organized by the Department of Electrical and Electronics Engineering of Sir M. Visvesvaraya Institute of Technology, Bangalore from 05th -10th July, 2021.

Mrs. Anchal chapra	Dr. SURESH H L	Dr. V.R.MANJUNATH
(Asst. Professor)	Prof& Head/Dept. of EEE	Principal
Dept. of EEE, Sir M.VIT	Dept. of EEE, Sir M.VIT	Sir M.VIT

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi | Approved by AICTE| Accredited by NAAC UGC)

Off International Airport Road, Bengaluru, Karnataka - 562157

Department of Electrical and Electronics Engineering

A Report On

One Week Online Short Term Training Program On

"Digital Signal Processing and Its Applications"

05.07.2021- 10.07.2021

FINAL REPORT ABOUT THE PROGRAMME

The department of Electrical and Electronics Engineering of Sir M.VIT was organized a One Week Online Short Term Training Program On "Digital Signal Processing and Its Applications" during 05.07.2021 to 10.07.2021.20 participants were registered for the workshop from EEE department. The Programme was inaugurated by Dr H L Suresh , HOD of EEE Dept of Sir MVIT. He had explained about the recent trends in the aviation sector and the usefulness of DSP systems in defense research. Also he have insisted for the inclusion of real time testing Mechanisms in the curriculum for the easier understanding of the course. There were totally five sessions were arranged on these two days excluding the Inaugural part. Speakers were selected such that they are having enough knowledge and presentation skills in the domain considered.

Contemporary Digital Signal Processors (DSPs) have large resources of logic gates and RAM blocks to implement complex digital computations. As DSP designs employ very fast I/Os and bidirectional data buses it becomes a challenge to verify correct timing of valid data within setup time and hold time. Floor planning enables resources allocation within FPGAs to meet these time constraints. DSPs can be used to implement any logical function that an ASIC could perform. The ability to update the functionality after shipping, partial re-configuration of a portion of the design and the low non-recurring engineering costs relative to an ASIC design (notwithstanding the generally higher unit cost), offer advantages for many applications.

Separate sessions were assigned for discussions and analysis. Where ever possible real time demo was arranged. Last session demo about the DSP module for motor speed control for industrial applications gives the students a real time exposure about the DSP systems.

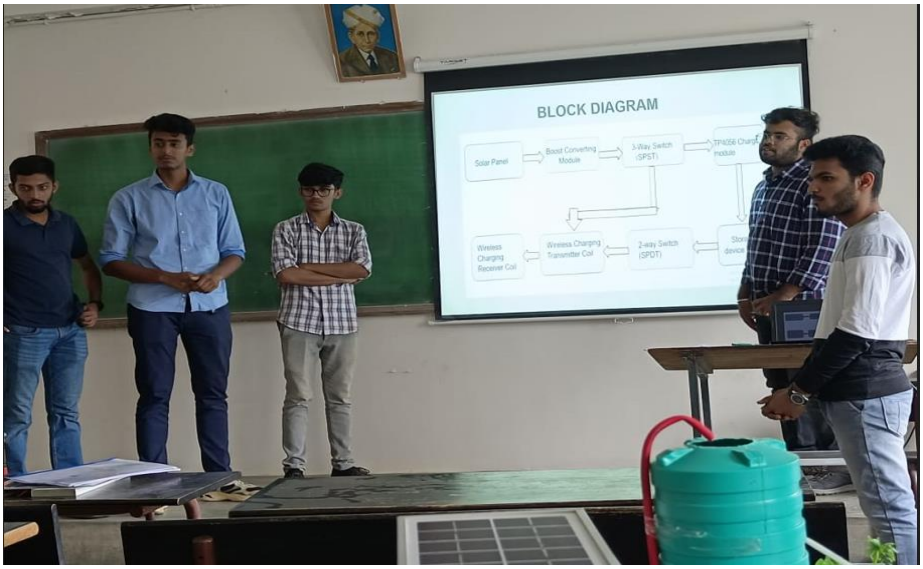
Also Dr Nayana had given a presentation about the R&D activities happening in IISc and she had insisted for the collaboration of the various colleges to work on FPGA systems. Also she had invited the interested students to join with IISc working team to learn and practice with the DSP design tools. Since major portion of the participants are from entry level to their career, the presentations were very fundamental and at the same time higher quality was maintained. The students were really enthuastic and willing to learn taken the opportunity to meet the demands of the industry. The following schedule was implemented for the entire Programme.

Date	Session	Time	Session Title	Resource Person
05-07-2021	1	Self paced	Introduction to Digital Signal Processing and DSP Toolbox	Dr. Nayana B R Dr. R. Subha
	2	2:45 to 3:45 PM	Lab session on Basics of MATLAB and DSP Toolbox.	Dr. R. Subha
06-07-2021	3	Self paced	Analog and Digital Filter Design	Dr. R. Subha
	4	2:45 to 3:45 PM	Hands-On - Filter Design and Implementation	
07-07-2021	5	Self paced	Basics of Image Processing	Mrs. P. Sumalatha
	6	2:45 to 3:45 PM	Hands-On : Image Processing	
08-07-2021	7	Self paced	Basics of Audio signal Processing	Mrs. Rekha Radhakrishnan
	8	2:45 to 3:45 PM	Hands-On : Audio Processing	
09-07-2021	9	Self paced	Bio-medical & Astrophysics Applications	Dr. Nayana B R
	10	2:45 to 3:45 PM	Demonstration of other applications	

All the presentation materials were given to the participants in the form of CD. Feedback being collected from the participants and they have shared their views and expectations during the valedictory ceremony. As the continuous process of this workshop it was decided to conduct one national conference on DSP systems in the month of April, 2017.Also the final year EEE students who are having no idea about the DSP, till then were motivated to do the project on the various problems which can be solved by DSP design. In this manner the core objective of the Programme was achieved to certain extend.

****

EVENT PHOTOS



****

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru-562157

Department of Electrical and Electronics Engineering

INDEX SHEET FOR CRITERIA 1.2.1

Sl. No.	Name of SDP/Add on Program /Nptel/Swayam	Date (From-to)	Number of students enrolled for the Course
1	One Week Online Short Term Training Program On "Machine learning using Python"	19th -24th July, 2021	20

CRITERIA COORDINATOR

HOD

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF T
adevarayanagar, Hunasa
Via Yelahanka, Bangalore

Bengaluru,

15.07.2021.

FROM

Mrs. Anchal Chapra,

Asst. professor, Dept. of EEE,

Sir M.VIT, Bengaluru.

TO

The Principal,

Sir M.VIT, Bengaluru.

Through

The HOD, Dept. of EEE,

Sir M.VIT, Bengaluru.

Respected Sir,

Sub: Seeking permission for organizing one week Students training program-Reg

The Dept. of EEE of Sir MVIT, would like to organize a One week short term training program through online mode from 19.07.2021 Monday to 24.07.2021 Saturday. The topic will be "Machine Learning using Python" which will be covering all the fundamentals of Python language and its solutions in Power system Engineering.

We humbly request you sir to permit for the same and do the needful.

Thanking you.

Yours Sincerely,

Anchal

(Mrs. Anchal Chapra)

Forwarded for kind approval

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF T...
...devarayanagar, Hunasa...
...Yelahanka, Bangalore...

Approved by

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, BANGALORE-562 157

Sir M Visvesvaraya Institute of Technology

Krishnadevarayanagar, Bangalore-562157, Karnataka

Affiliated to VTU, Belagavi | Approved by AICTE | Accredited by NAAC UGC

Department of Electrical and Electronics Engineering

In association with

Organizes

One Week Hands-on Online Student Development Program on

MACHINE LEARNING USING PYTHON

19th TO 24th July 2021

RESOURCE PERSONS

Dr. R. Subha, Associate Professor.
Dr. Nayana B. R., Associate Professor
Mrs. P. Sumalatha, Assistant Professor
Mrs. Rekha R, Assistant Professor

ORGANIZING CHAIR
Dr. V. R. Manjunath
Principal, Sir MVIT

CONVENOR
Dr. H. L. Suresh
Professor & HOD EEE

SCHEDULE

Date	Session	Time	Session Title
19-07-2021	1	Self paced	Introduction to Machine Learning
	2	3:00 to 4:00 PM	Lab session on Importing and Preprocessing Data
20-07-2021	3	Self paced	Data Analysis and Visualization
	4	3:00 to 4:00 PM	Lab Session
22-07-2021	5	Self paced	Linear and Logistic Regression
	6	3:00 to 4:00 PM	Lab Session
23-07-2021	7	Self paced	Feature Extraction and Classification
	8	3:00 to 4:00 PM	Lab Session
24-07-2021	9	Self paced	Feature Selection And Decision Tree
	10	3:00 to 4:00 PM	Lab Session

COORDINATORS

Mrs. Anchal Chhabra, Assistant Prof., anchal_eee@sirmvit.edu, Ph: 9900444922
Mrs. Reshma T. M., Assistant Prof., reshma_eee@sirmvit.edu, Ph: 9400299031

Link for Registration

https://forms.gle/LxjmoVWBgGcyQVG6A

Link for joining WhatsApp Group

https://chat.whatsapp.com/ILC8QT7EPpX7f8R7f5BKSS

Last date for registration is 17th July, 2021. Certificates will be provided on successful completion

DETAILED SCHEDULE OF SDP

The detailed schedule of the sessions is as follows

Date	Session	Time	Session Title	Resource Person
19-07-2021	1	Self paced	Introduction to Machine Learning	Mrs. P. Sumalatha
	2	3:00 to 4:00 PM	Lab session on Importing and Preprocessing Data	Dr. R. Subha
20-07-2021	3	Self paced	Data Analysis and Visualization	Mrs. Rekha R
	4	3:00 to 4:00 PM	Lab Session	
22-07-2021	5	Self paced	Linear and Logistic Regression	Mrs. P. Sumalatha
	6	3:00 to 4:00 PM	Lab Session	
23-07-2021	7	Self paced	Feature Extraction and Classification	Dr. Nayana B R
	8	3:00 to 4:00 PM	Lab Session	
24-07-2021	9	Self paced	Feature Selection And Decision Tree	Dr. R. Subha
	10	3:00 to 4:00 PM	Lab Session	

Sri Krishnadevaraya Educational Trust

Sir M. Visvesvaraya Institute of Technology, Bengaluru-562 157

Department of Electrical and Electronics Engineering

AY: 2021-22

Sl. No	USN	STUDENT NAME	Enrolled for SDP/Course/ /Nptel Swayam etc	Date(from and to)
1	1MV19EE054	MEGHANA V	One Week Online Short Term Training Program On "Machine learning using Python"	19th -24th July, 2021.
2	1MV18EE020	ANNAPURNA C S		
3	1MV18EE021	ANUPAM MISHRA		
4	1MV17EE096	WALUSHA AWNOORY		
5	1MV19EE053	MANYA JHA		
6	1MV20EE042	MAYANK MANU		
7	1MV19EE055	MOHAMMED ARHAAN PASHA		
8	1MV19EE056	MOHD JUNAID		
9	1MV20EE045	MOHMAD HUZEF TATARIA		
10	1MV19EE058	MRUGANK PANDYA		
11	1MV17EE095	VIVEK SINGH		
12	1MV18EE407	HEMANTH BABU V		
13	1MV18EE408	KISHORE K S		
14	1MV17EE097	YATHISH H P		
15	1MV20EE044	MOHITH N		
16	1MV19EE059	MUNNA BHARDWAJ		
17	1MV20EE046	MONIKA M R		
18	1MV20EE047	NAGARJUNA M D		
19	1MV19EE057	MOHHAMAD AFSER		
20	1MV20EE043	MD NAWAZ SHARIF KHAN		

Anchal

(Mrs.Anchal Chapra)

Coordinator- STP

PROF. & HEAD
DEPT. OF ELECTRICAL ENGG.
VISVESVARAYA INSTITUTE OF T...
...devarayanagar, Hunasa...
...Via Yelahanka, Bangalore-...

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi/ VTU, Belgavi/NAAC/NIRF Rank Band :250-300

Krishnadevaraya Nagar, Bangalore 562157

Department of Electrical and Electronics Engineering

Certificate of Participation

This is to Certify that

Harshitha S Reddy

from

Sir M Visvesvaraya Institute of Technology

has participated in One Week Hands-on Online Student Development Program on Machine Learning using Python from 19th to 24th July 2021

Coordinator	Coordinator	Head of the Department	PRINCIPAL
Reshma T M	Anchal Chhabra	Dr. H. L. Suresh	Dr. V. R. Manjunath

DEPARTMENT OF Electrical and Electronics ENGINEERING,

Sir M. Visvesvaraya Institute of Technology

A REPORT on WORKSHOP on "MACHINE LEARNING USING PYTHON"

19th -24th July, 2021

Objectives of Workshop

1. To introduce and acquaint students to design and development of Intelligent controllers using machine learning applications..
2. To prevail on them the importance of Data analysis and scope of intelligent controllers in the control system domain.
3. Practical exposure to FPGA systems and novel design controllers.
4. Emphasize Industrial relevance of IOT.
5. To inspire and motivate students to understand and explore the world of Data Analysis using IOT.

****

Nature of the program:

Present Program is a workshop on "Machine learning using Python" The aim is to introduce students to the world of Python programming. Updating students as per industry/global requirements and improving student's skills through hands-on sessions.

Duration of Program:

The workshop was conducted for one week through online mode during 19th and 24th of July, 2021 between 9 am to 5 pm .

Participants:

The participation was open for all the department students

Guests:

The workshop made use of two external resource persons :

1. Mr. Venugopal,
Director, NTTF India, Bangalore.

2. Dr. Suresh Thulasidas
Professor, Center of Electronic system design, IISc.

Methodology:

The entire session was carried out with partial hands-on along with power point presentation (including the software installations). Question and answer session was also entertained throughout the program.

About the Workshop

In this new era of Control system engineering, we come across new Technologies, tools and frameworks to make our computing life simple, since Electrical Engineering is a Dynamic niche; our Knowledge needs to be updated with most recent technologies. Student's part of engineering stream should be made aware of new technologies trending in the market of FPGA. As faculties it's our responsibility to introduce students to different platforms and concepts, their by letting them to choose their stream / area of choice. Intelligent controller is one such trending area in today's date and control engineers are in high demand. With this workshops introduction we are trying to deliver the need of the market and also students can incorporate this understanding in their respective mini/main projects, and make one self more eligible for job placements.

Intelligent control system (ICS) is the science of examining control system with the purpose of drawing conclusions about that information. ICS is used in many industries to allow companies and organization to make better business decisions or disprove existing models or theories. ICS is a process used to inspect, clean, transform and remodel data with a view to reach to a certain conclusion for a given situation. ICS is typically of two kinds: linear or non linear. The type of data dictates the method of analysis. In qualitative research, any non-numerical data like text or individual words are analyzed. The proposed Two days workshop on "Recent Trends in Intelligent Controllers and Industrial Automation" organized by the Department of Electrical and Electronics Engineering of NMIT will be teaching the students from various Engineering domains about the benefits and challenges encountered in the evaluation of software based hardware applications in the present scenario.

For example, IoTs (Internet of Things) are the upcoming technology by using which prebuilt logic blocks and programmable routing resources; one can configure these chips to implement custom hardware functionality without ever having to pick up a breadboard or soldering iron. Developing the digital computing

tasks in software and compile them down to a configuration file that contains information on how the components should be wired together. In addition, IoTs are completely reconfigurable and instantly take on a brand new "personality" during recompilation in a different configuration of circuitry. Traditionally, IoTs s have been reserved for specific vertical applications where the volume of production is small. For these low-volume applications, the premium that companies pay in hardware costs per unit for a programmable chip is more affordable than the development resources spent on creating an ASIC for a low-volume application. Today, new cost and performance dynamics have broadened the range of viable applications.

In the past, IoT technology could be used only by engineers with a deep understanding of digital hardware design. The rise of high-level design tools, however, is changing the rules of FPGA IoT programming, with new technologies that convert graphical block diagrams or even C code into digital hardware circuitry. This aspect is motivating the students to work on IoTs design and develop new user friendly hardware.

This one week workshop dealing with the fundamentals and the recent trends in the IoTs design that will be useful for the students to do their project works using IoTs.

Outcomes of the workshop:

1. Students grasped the importance of IOT and easy to use concepts of MATLAB programming.
2. Students are well versed in writing basic MATLAB program using fundamental concepts.
3. Faculty and Students are able to explore all new advanced modules and features of FPGA.
4. Faculty are able to give different problem statements based on IOT modules, their by coming up with all new ideas and solutions.

5. 

An Interactive session by Dr. Venugopal

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Department of Biotechnology

1. **EVENT TITLE:** 10 Day Lecture Series on Drug Discovery
2. **START DATE: 5th April 2021**
3. **END DATE: 7th May 2021**

4. Description

The 10 Day Lecture series was initiated on 5th April 2021 via virtual mode. The Series was given a bright start by Dr Manjunath Ramarao, Group Director and Head, Discovery Biology and Translational Sciences Bristol-Myers Squibb, Bangalore. All the topics related to Pharmacology and drug discovery pipeline was discussed during the lecture series.

Participants: 42

10-WEEK LECTURE SERIES ON DRUG DISCOVERY

April 05 – May 07, 2021

Organized by

Department of Biotechnology,

Sir M. Visvesvaraya Institute of Technology, Bangalore- 562 157

Supported by

BIOCON-BRISTOL MYERS SQUIBB, Bengaluru, Karnataka- 560 099

Sponsored by: Sri Krishnadevaraya Educational Trust Bangalore-560 080

10 Week Lecture Series On Drug Discovery- 2021

Date	Speaker	Topics Covered
Monday, April 5, 2021	Dr. Manjunath Ramarao	New Modalities In Drug Discovery
Tuesday, April 6, 2021	Dr. Kaushik Ghosh	Protein Sciences, Structure, Biophysics
Friday, April 09, 2021	Dr. Prakash Subramanyam	Cellular Biology
Monday, April 12, 2021	Dr. Yazh Muthukumar	Molecular Biology
Friday, April 16, 2021	Dr. Amit Anand	Genomics
Monday, April 19, 2021	Dr .Namrata Jayanth	In Vitro Pharmacology, Technology
Friday, April 23, 2021	Dr Jyoti Gulia	Cardiovascular Diseases
Monday, April 26, 2021	Dr. Shailesh Dudhgaonkar	Immunology And Oncology
Friday, April 30, 2021	Dr.Prakash Vachaspati & Dr.Thanga Mariappan	Pharmacology
Monday, May 03, 2021	Dr. Debarati Mazumder	Fibrosis
Friday, May 07, 2021	Dr..Anagha Jadhav And Gaurav Jain	Seminar 1: Translational Sciences Seminar 2: Bioinformatics and Data Analytics

COORDINATORS :

Dr.H G Nagendra , Prof &Head, Dept. of Biotechnology

Dr.Priya Narayan, Associate professor, Dept. of Biotechnology

Dr. Jagadeesh Kumar D, Assistant Professor, Dept. of Biotechnology

For More details contact coordinators :

Email: priya_biotech@sirmvit.edu Contact no : 9880993818

Email: jagadish_biotech@sirmvit.edu Contact no : 9845567973

TARGET AUDIENCE

- Interested students studying in **VIII semester BE Biotechnology** are eligible to register for the workshop.
- A Maximum of **80 Students** will be permitted on first come first serve basis.

All talks will be between 10:am and 12 noon

REGISTRATION DETAILS:

- Registration can be done via the link given below.
- **Last Date for Registration:** 4th April 2021.
- All Registrants will get e-certificates at the end of the lecture series.

Registration Form link:
https://forms.gle/2Au6TcYSoVjXk6Rc7

Webinar Link :
meet.google.com/ddf-xdej-rsk

J A I V I K

DEPARTMENT OF BIO-TECHNOLOGY

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE 562 157

CORDIALLY INVITES ONE & ALL

FOR THE INAUGURAL TALK
ON
"NEW MODALITUES IN DRUG DISCOVERY"

OF THE

10 WEEK LECTURE SERIES ON DRUG DISCOVERY
(APRIL 5TH TO MAY 7th, 2021)

By

Dr. Manjunath Ramarao

Group Director and Head, Discovery Biology and Translational Sciences
Bristol-Myers Squibb, Bangalore

INDUSTRY PARTNER

THE BIOCON BRISTOL-MYERS SQUIBB RESEARCH & DEVELOPMENT CENTER (BBRC)
BANGALORE- 560099

TIME	**:**	**10:00 AM**
DATE	**:**	**Monday, 5th APRIL 2021**
	:	**Webinar link:**
		meet.google.com/ddf-xdej-rsk

PATRONS: SRI KET, BANGALORE – 560 080

HEARTY WELCOME TO ALL DELEGATES AND INVITEES

" THE 3rd "10-WEEK LECTURE SERIES ON DRUG DISCOVERY"

(April 05 – May 07, 2021)

Venue: Dept. of Biotechnology, Sir. MVIT

Jointly Organized By

Department of Biotechnology

Sir M Visvesvaraya Institute of Technology

Krishnadeveraya Nagar, New International Airport Road,

Hunasamaranahalli, Bangalore-562157

&

THE BIOCON BRISTOL-MYERS SQUIBB RESEARCH & DEVELOPMENT CENTER (BBRC)

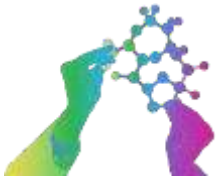
BANGALORE- 560099

INAUGURAL TALK ON "NEW MODALITUES IN DRUG DISCOVERY"

By : Dr. Manjunath Ramarao

Group Director and Head, Discovery Biology and Translational Sciences

Bristol-Myers Squibb, Bangalore-560099



Sponsored By

Sri Krishnadevaraya Educational Trust, Bangalore-562157

Molecular Technologies in Drug Discovery

Kaushik Ghosh

Deputy Research Director and Head
Protein Science & Molecular Technologies (PSMT)

People

Share invite

Currently in this meeting (47)

- Shreyaas .R. Yadav (Guest)
- Shweta Ramamoorthy
- Sindu C (Guest)
- Snehal Ponnappa.K (Guest)
- Srinidhi Athreyas (Guest)
- Srividya Subash (Guest)
- Vaishnavi S (Guest)
- Vrushabh C (Guest)
- Yamuna (Guest) On hold
- Yashaswini H C (Guest)
- Yashaswini MA (Guest)

JZ SS AR MJ MP PR G YC KG KC DN

MVIT lecture series

15:25

Request control

Leave

Modulation of Immune Response in Drug Discovery

Drug Discovery Lecture Series, Sir M. Visvesvaraya Institute of Technology, Bangalore

26th April 2021

Dr. Shailesh Dudhgaonkar, Ph. D.
Deputy Research Director,
Immunology and Oncology – Discovery and Translational Medicine,
Biocon Bristol Myers Squibb Research and Development Center (BBRC), Bangalore

Shailesh Dudhgaonkar/BBRC/SYNGENE

FOR?

BMS Highly Confidential

Bristol-Myers Squibb

1

Participants

Invite someone or dial a number

Share invite

Waiting in lobby (1)

YC YASHASWINI H C Admitting...

In this meeting (31)

Mute all

Dr.Jagadeesh kumar.D

AA AISHWARYA D A

AC AKSHATHA CHAKRAVARTHY

AD ALLAN DSILVA

A Anagha.G.Kulkarni

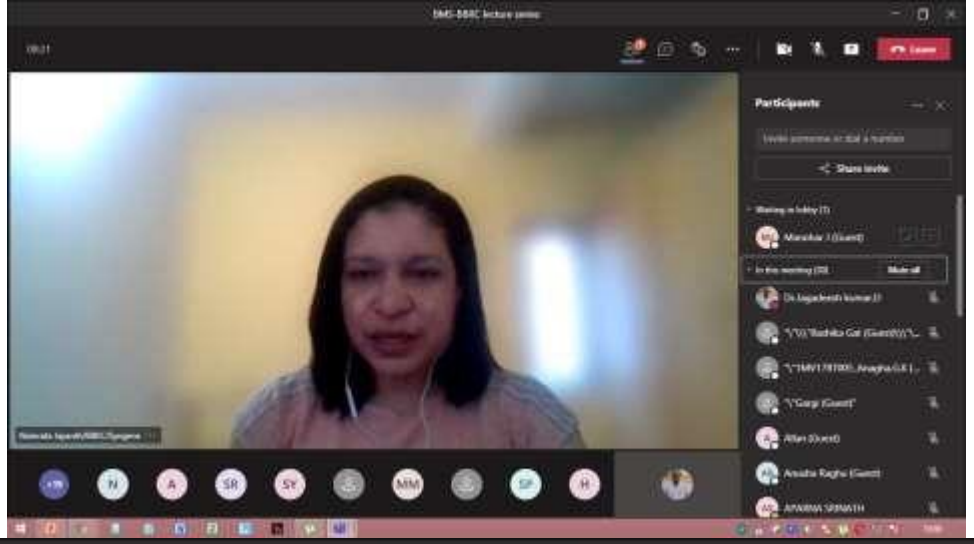
AR ANUSHA RAGHU

AS APARNA SRINATH

+25 MM DA NS NIHARIKA S

meet.google.com is sharing your screen. Stop sharing Hide

10:13



BMS-BBRC lecture series

08:59

Request control

Leave

Unmute (Ctrl+Shift+M)

In Vitro Pharmacology

In Vitro Biology, Assays and Technology Platforms

19th April 2021

Namrata Jayanth
Senior Principal Investigator
Discovery Biology

Bristol Myers Squibb

Highly Confidential

Namrata Jayanth/BBRC/Syngene

Participants

Invite someone or dial a number

Share invite

In this meeting (32) Mute all

Dr.Jagadeesh kumar.D

"\"\\\"Rashika Gat (Guest)\\\"\"...

"\"1MV17BT005_Anagha.G.K (...

"\"Gargi (Guest)"

Allan (Guest)

Anusha Raghu (Guest)

APARNA SRINATH

Bhavana N V (Guest)

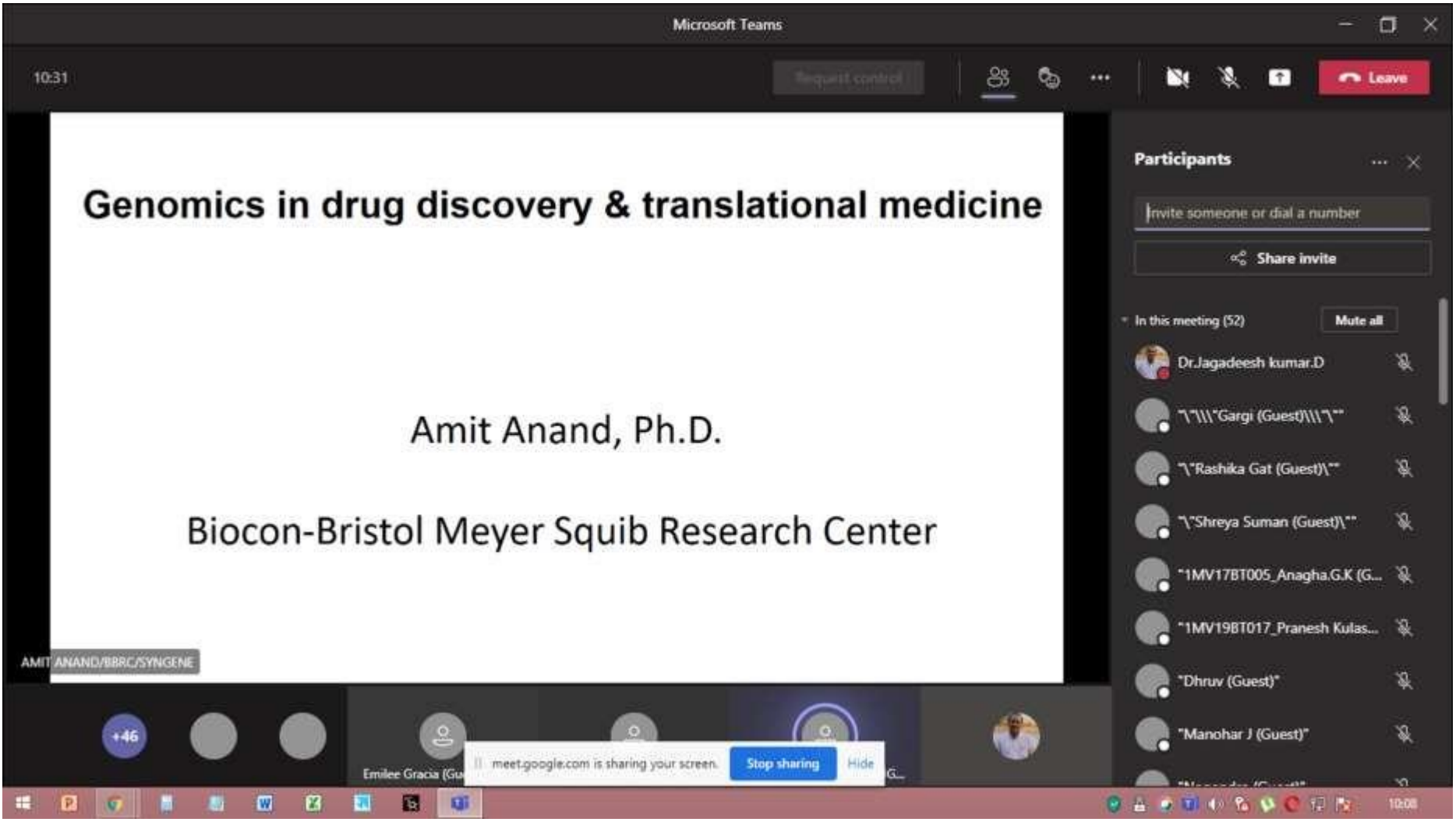
+26 MM

SP Snehal Ponnappa.K (G...

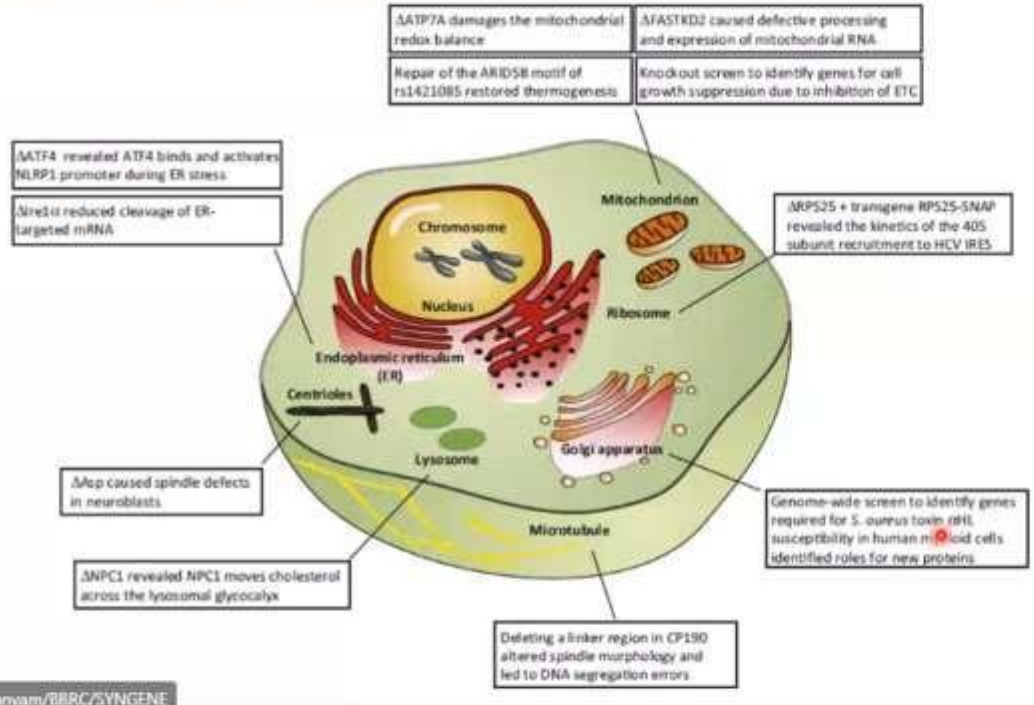
H HOD_BT

NJ Namrata Jayanth/BBRC/Sy...

10:07


Microsoft Teams
10:31
Request control
Leave
Genomics in drug discovery & translational medicine
Amit Anand, Ph.D.
Biocon-Bristol Meyer Squib Research Center
AMIT ANAND/BBRC/SYNGENE
Participants
Invite someone or dial a number
Share invite
In this meeting (52)
Mute all
Dr.Jagadeesh kumar.D
"\"\\\"Gargi (Guest)\\\"\""
"\"Rashika Gat (Guest)\""
"\"Shreya Suman (Guest)\""
"1MV17BT005_Anagha.G.K (G...
"1MV19BT017_Pranesh Kulas...
"Dhruv (Guest)"
"Manohar J (Guest)"
+46
meet.google.com is sharing your screen.
Stop sharing
Hide

Application of the CRISPR Cas9 system – in Cell Biology research



53

Prakash V. Subramanyam/BBRC/SYNGENE

DEPARTMENT OF BIOTECHNOLOGY
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Instructions: Answer All Questions; Each question carries ONE mark

Name: USN Date

Sl No		A	M
1.	Which of the following is not a cell adhesion protein? A) Cadherin B) Integrin C) Selectin D) Clathrin		
2.	Two strains of mice which are genetically identical except for a single genetic locus are referred to as A) Syngenic B) Allogenic C) Congenic D) Heterogenic		
3.	During cell growth of a bacterium A) New peptidoglycan is required along with hydrolysis of bonds linking the peptidoglycan chains B) New peptidoglycan is required but no hydrolysis of old peptidoglycan occurs C) Old peptidoglycan is degraded and replaced with newly synthesized longer polymer D) Newly synthesized peptidoglycan is utilized to deposit a new layer of the peptidoglycan in the cell wall.		
4.	A researcher samples n individuals randomly from a population of black buck and identifies their sex. The number of females in the samples follows A)Exponential distribution B) Binomial distribution C) Poisson distribution D) Normal distribution		
5.	Amino acid residue which is most likely to be found in the interior of water-soluble globular proteins is (A) Threonine (B) Aspartic acid (C) Valine (D) Histidine		
6.	The active site in the alpha/beta barrel structures is usually located (A) inside the barrel (B) at the amino side of the strands (C) at the carboxy side of the strands (D) at any arbitrary site		
7.	Which one of the following is NOT an algorithm for building phylogenetic trees? (A) Maximum parsimony (B) Neighbor joining (C) Maximum likelihood (D) Bootstrap		
8.	Which of the following statements is true for two different tripeptides consisting of either glycine or proline? (A) Glycine tripeptide will have relatively larger allowed area on the Ramachandran plot. (B) Proline tripeptide will have relatively larger allowed area on the Ramachandran plot. (C) Both the tripeptides will fall primarily in the disallowed regions of the Ramachandran plot. (D) Both the tripeptides will fall primarily in the overlapping allowed regions of the Ramachandran plot.		
9.	Which one of the following is the major product of fatty acid synthase? (A) Acetyl-CoA (B) Palmitoyl-CoA (C) Acetoacetate (D) Palmitate		
10.	Arabidopsis is advantageous for plant genetic research because: (A) it is commercially important as a food crop (B)it is having longer life cycle (C)it is a small plant with a small genome size which can be raised inexpensively (D)it is a close relative of corn and results with this species can be applied to problems in corn		
11.	Molecular Dynamics simulation is carried out for: (A) Obtaining ensemble of structures at physiological condition (B)Obtaining the structure at global energy minimum (C)Fitting prospective drug candidate molecules to a receptor (D)Modeling a protein structure from sequence alone		
12.	A left handed alpha helix falls in the Ramachandran plot under: (A) allowed region (B) partially allowed region (C) disallowed region (D) line joining allowed and partially allowed region		
13.	The Greek key motif is composed of: (A)Four alpha helices (B)Three alpha helices and one beta strand (C) Two alpha helices and two beta strands (D)Four beta strands		
14.	In human genome, approximately .....of the DNA codes for proteins: (A) 10%(B) 2% (C) 50%(D) 20%		
15.	In competitive inhibition (A)Km increases, V max constant (B) Km decreases, Vmax constant (C)Km constant, Vmax increases (D) Km decreases, Vmax increases		

16.	For a reaction to be spontaneous, (A) ΔG is negative (B) ΔG is positive (C) ΔG = 0 (D) ΔH increases		
17.	The dependence of molecular weight of protein molecule to the distance traveled in denaturing gel electrophoresis is: (A) linear (B) cubic (C) logarithmic (D) inversely related to the amount of denaturant		
18.	Product yield coefficient is defined as (A) Cell mass formed: substrate utilized (B) Substrate utilized: cell mass formed (C) Product formed: substrate utilized (D) Substrate utilized : product formed		
19.	At equilibrium the receptor occupancy is related to drug concentration by (A) Henderson-Haselbach equation (B) Hill-Langmuir equation (C) Lineweaver-Burk equation (D)Langmuir adsorption isotherm		
20.	In reconstruction of phylogenetic trees using molecular sequence data, a singleton site in MSA is considered to be (A) an invariant site (B)an informative variable site (C)an uninformative variable site (D)a conserved site		
21.	Which alignment is used to predict whether two sequences are homologous or not? (A) Local (B) Global (C) Pair-wise (D) Multiple		
22.	The technique for identifying the nucleic acid sequences bound by a DNA/RNA binding protein is (A) Finger printing (B) Foot printing (C) Array printing (D) AFLP		
23.	A restriction endonuclease recognizes a 8 bp unbiased conserved sequence as its cleavage site. How many probable site(s) can be present in a 70 kb DNA fragment ? (A) 2 (B) 1 (C) 4 (D) 6		
24.	A linear fragment of DNA will be unstable if it carries: (A)Two origins of replication (B) Two centromeres (C) Two telomeres (D) Two selection markers		
25.	Which of the following amino acids has the highest probability to be found on the surface of a typical globular protein in aqueous environment? A) Ala B) Val C) Arg D) Ile		
26.	The statistical frequency of the occurrence of a particular restriction enzyme cleavage site that is 6 bases long can be estimated to be (A) once every 24 bases (B) once every 256 bases (C) once every 1024 bases (D) once every 4096 bases		
27.	Telomerase, which completes the replication of Telomeres is a specialized (A) RNA Dependent DNA polymerase (B) DNA Dependent RNA polymerase (C) DNA Dependent DNA polymerase (D) RNA Dependent RNA polymerase		
28.	Regulation of Trp Operon by binding of Tryptophan to trp repressor is termed as (A) Repression (B) Induction (C) Anti termination (D) Attenuation		
29.	Which of the following antibiotics inhibit 80S ribosomes (A) Tetracycline (B) Streptomycin (C) Cyclohexamide (D)Chloramphenicol		
30.	Tertiary structure of a protein consisting of α-helices and β-strands can be determined by (A) Circular Dichroism spectroscopy (B) Mass spectroscopy (C) NMR spectroscopy (D) UV spectroscopy		

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
10 DAY LECTURE SERIES ON DRUG DISCOVERY

MARKS OBTAINED

	USN	NAME	MARKS (50)
1	1MV16BT009	DHRUV BALAYA	**15**
2	1MV16BT034	SNEHAL PONNAPPA K	**20**
3	1MV17BT002	AISHWARYA D A	**29**
4	1MV17BT004	ALLAN DSILVA	**26**
5	1MV17BT005	ANAGHA G KULKARNI	**17**
6	1MV17BT007	APARNA SRINATH	**21**
7	1MV17BT008	BHAVANA N V	**19**
8	1MV17BT011	JAHNAVI M ZALKI	**18**
9	1MV17BT012	MANOHAR J	**09**
10	1MV17BT013	MEGHA S PATIL	**21**
11	1MV17BT016	NIHARIKA S	**14**
12	1MV17BT017	NIKHIL K	**17**
13	1MV17BT018	PRATHEESHA	**19**
14	1MV17BT019	PRIYANKA M R	**20**
15	1MV17BT020	RAKSHITHA HR	**15**
16	1MV17BT021	RANGON DUTTA	**18**
17	1MV17BT023	SAHANA B T	**12**
18	1MV17BT024	SAHANA S	**13**
19	1MV17BT027	SHIVAM PANDIT	**20**
20	1MV17BT028	SHREYA RAJASEKAR	**29**
21	1MV17BT029	SHREYA SUMAN	**15**
22	1MV17BT034	SRIVIDYA SUBASH	**15**
23	1MV17BT035	SUPRITHA ML	**18**
24	1MV17BT038	VISMAYA M K	**19**
25	1MV17BT039	VRUSHABH C	**27**

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
10 DAY LECTURE SERIES ON DRUG DISCOVERY
FEEDBACK FORM

Sl No	College/Institution/Affiliation	Did the lecture series help you understand aspects of drug discovery	Did the lecture series help understand design of drugs and trouble shooting in the Pharma Industry	Did the lecture series help you understand newer technologies in drug discovery	Did the lecture series help you think towards health and well being of society	Did the lecture series help analyze complex problems related to drug discovery?	Did the session give you an exposure to newer career trends in the Pharma Industry	Would you like to be part of many more such lecture series	Any other comments/scope for improvement
1	Sir MVIT	4	4	5	4	5	4	Maybe	-
2	Sir M Visvesvaraya Institute of Technology	5	5	5	5	5	5	Yes	None
3	Sir M Visveswaraya Institute of Technology	5	5	5	5	5	5	Yes	The lecture series gave a clear picture of how things work in a pharma industry and how important scientists are to the mankind and society. Thank you for such a wonderful opportunity.
4	SIR MVIT	4	4	5	5	5	5	Maybe	None
5	Sir Mvit	5	5	5	5	5	5	Maybe	N/A
6	Sir M Visvesvaraya Institute of Technology	5	5	5	5	5	5	Yes	None. The lecture series were very informative and it helped me gain a lot of insights into the drug discovery field and I was able to relate the concepts learnt while studying Clinical and Pharmaceutical

									BT.
7	Sir MVIT	5	5	5	5	5	5	Yes	NA
8	Sir M Visvesvaraya institute of technology	4	4	5	5	3	3	Yes	Limiting the content of the lectures to our understanding and knowledge.
9	Sir MVIT	5	4	5	5	5	5	Yes	NIL
10	Sir MVIT	4	4	4	4	4	4	Yes	Good program
11	Sir MVIT	5	5	5	5	5	5	Yes	Have more such programs
12	MVIT	5	5	5	5	4	5	Yes	Good
13	Sir M Visvesvaraya institute of technology	5	5	5	5	5	5	Yes	very good programme
14	Sir MVIT	4	5	4	5	5	5	Yes	need more like this
15	Sir MVIT	5	5	5	5	5	5	Yes	good
16	Sir mVIT	5	5	5	5	5	5	Yes	very good exposure
17	Sir MVIT	5	5	4	4	5	5	Yes	good
18	MVIT	5	5	5	5	5	5	Yes	good
19	Sir MVIT	5	4	5	5	5	5	Yes	content was good
20	Sir M Visvesvaraya institute of technology	5	5	5	5	5	5	Yes	good
21	Sir MVIT	5	5	5	5	5	5	Yes	None
22	Sir MVIT	5	5	5	5	5	5	Yes	good event
23	Sir MVIT	5	5	4	5	5	5	Yes	time was short
24	MVIT	5	5	5	5	5	5	Yes	None
25	Sir MVIT	5	5	5	5	5	5	Yes	need offline
26	MVIT	5	5	5	5	5	5	Yes	NA

27	MVIT	5	5	5	5	5	5	Yes	None
28	MVIT	5	5	5	5	5	5	Yes	Very good
29	Sir MVIT	5	5	4	5	5	5	Yes	Good
30	Sir M Visvesvaraya institute of technology	5	4	5	5	5	5	Yes	None
31	Sir MVIT	5	4	4	5	5	5	Yes	none
32	Sir MVIT	5	4	5	5	5	5	Yes	none
33	MVIT	5	4	5	5	5	5	Yes	good
34	Sir MVIT	5	5	5	5	5	5	Yes	enjoyed
35	Sir MVIT	5	4	5	5	5	5	Yes	good talks
36	Sir MVIT	5	4	5	5	5	5	Yes	need more such programs
37	Sir MVIT	5	4	5	5	5	5	Yes	need practical exposure in future
38	Sir MVIT	5	4	5	5	5	5	Yes	Good
39	Sir MVIT	5	4	5	5	5	5	Yes	good
40	Sir MVIT	5	5	5	5	5	5	Yes	NA
41	Sir Mvit`	5	5	4	4	4	4	Yes	Good
42	Sir MVIT	5	5	4	4	4	4	Yes	NA

Sir M Visvesvaraya Institute of Technology

Hunasamaranahalli,Bengaluru-562157

Department of Electronics & Communication Engineering

Date: 05/07/2021

To,
The HOD,
Dept. of ECE
Sir MVIT

From,
Seema S.
Asst. Professor
Dept. of ECE,Sir MVIT

Respected Sir,

Sub: Permission to conduct Student Development Program on "Hands on session on Signals and Control systems Engineering Applications using MatLab" from 14th to 16th July 2021.

With respect to above subject, we are planning to conduct a Student Development Programme on "Hands on session on Signals and Control systems Engineering Applications using MatLab" from 14th to 16th July 2021. This SDP introduces MATLAB for Signals and Systems and Control Systems applications. This program is beneficial for the 4th semester engineering students.

Kindly oblige.

Thanking you.

Coordinators:

Dr. Sasmita Mohapatra
Mrs. Vani B. P.
Mrs. Seema S.
Mrs. Sheetal Bagali

Dr. R Sundaraguru,
Professor & HOD, Department of ECE

Sri Krishnadevaraya Educational Trust's

Sir M. Visvesvaraya Institute of Technology

Krishnadevaraya nagar, Hunasamaranahalli, International Airport Road,
Bangalore-562157

Department of Electronics and Communication Engineering
PG and Research Centre

Registration Form

Sl.No.	Student Name	Email ID
1.	Bhuvaneshwari	1MV17EC024@smvit.onmicrosoft.com
2.	Adarsh Abhay	1MV18EC003@smvit.onmicrosoft.com
3.	Sidharth Kumar Pandey	1MV18EC102@smvit.onmicrosoft.com
4.	Abdul Aleem	1MV19EC001@smvit.onmicrosoft.com
5.	Abhishek S Masgal	1MV19EC002@smvit.onmicrosoft.com
6.	Aditya Singh	1MV19EC005@smvit.onmicrosoft.com
7.	Akash Awasthi	1MV19EC006@smvit.onmicrosoft.com
8.	Akshay Myakeri	1MV19EC007@smvit.onmicrosoft.com
9.	Alok Kumar	1MV19EC008@smvit.onmicrosoft.com
10.	Aman Gupta	1MV19EC009@smvit.onmicrosoft.com
11.	Aman Shanti	1MV19EC011@smvit.onmicrosoft.com
12.	Anjali Kanthaliya	1MV19EC012@smvit.onmicrosoft.com
13.	Anubhav Jha	1MV19EC014@smvit.onmicrosoft.com
14.	Archana B R	1MV19EC015@smvit.onmicrosoft.com
15.	Arnab Chakraborty	1MV19EC016@smvit.onmicrosoft.com
16.	Arpit Kabra	1MV19EC017@smvit.onmicrosoft.com
17.	Aryan Dixit	1MV19EC018@smvit.onmicrosoft.com
18.	B Punit Kumar	1MV19EC022@smvit.onmicrosoft.com
19.	Bhaskar Jaiswal	1MV19EC023@smvit.onmicrosoft.com
20.	Bhavana U	1MV19EC024@smvit.onmicrosoft.com
21.	Bindushre S	1MV19EC025@smvit.onmicrosoft.com
22.	Chudesh Vanny V	1MV19EC026@smvit.onmicrosoft.com
23.	D H Gowda	1MV19EC027@smvit.onmicrosoft.com
24.	Devika.A	1MV19EC031@smvit.onmicrosoft.com
25.	Devika S G	1MV19EC032@smvit.onmicrosoft.com
26.	Dhananjaya Miththanthaya	1MV19EC033@smvit.onmicrosoft.com
27.	Dheeraj Kumar	1MV19EC034@smvit.onmicrosoft.com
28.	Disha Gandhi	1MV19EC036@smvit.onmicrosoft.com
29.	Dishant Banik	1MV19EC037@smvit.onmicrosoft.com
30.	Govind Jee	1MV19EC039@smvit.onmicrosoft.com
31.	Gudikal Sai Vamsi	1MV19EC041@smvit.onmicrosoft.com
32.	Harini Sampath	1MV19EC042@smvit.onmicrosoft.com

Sl.No.	Student Name	Email ID
33.	Himanshu Kumar Gupta	1MV19EC046@smvit.onmicrosoft.com
34.	Ishu Singh	1MV19EC047@smvit.onmicrosoft.com
35.	Isukapalli Sai Krishnachaithanya	1MV19EC048@smvit.onmicrosoft.com
36.	Jaisan	1MV19EC049@smvit.onmicrosoft.com
37.	Ks Bhavishya	1MV19EC050@smvit.onmicrosoft.com
38.	Kacharagadla Deepthi	1MV19EC051@smvit.onmicrosoft.com
39.	Kalyankumar Y M	1MV19EC052@smvit.onmicrosoft.com
40.	Kandanoolu Kowshika Reddy	1MV19EC053@smvit.onmicrosoft.com
41.	Kartik Kesharwani	1MV19EC055@smvit.onmicrosoft.com
42.	Kavana.T.U	1MV19EC056@smvit.onmicrosoft.com
43.	Kishan Kumar	1MV19EC057@smvit.onmicrosoft.com
44.	Kodatala Yaswanth Reddy	1MV19EC059@smvit.onmicrosoft.com
45.	Komal Priya	1MV19EC060@smvit.onmicrosoft.com
46.	Md Abdullah Anwar	1MV19EC066@smvit.onmicrosoft.com
47.	N B Vidhyashree	1MV19EC068@smvit.onmicrosoft.com
48.	N S Prathveesh	1MV19EC069@smvit.onmicrosoft.com
49.	Nikita Shrikant Pai	1MV19EC072@smvit.onmicrosoft.com
50.	Nikitha S Reddy	1MV19EC073@smvit.onmicrosoft.com
51.	Payyavula Deepa	1MV19EC077@smvit.onmicrosoft.com
52.	Piyush Prabhat	1MV19EC078@smvit.onmicrosoft.com
53.	Prashant Kumar	1MV19EC081@smvit.onmicrosoft.com
54.	Prathiksha A	1MV19EC082@smvit.onmicrosoft.com
55.	Punit K N	1MV19EC083@smvit.onmicrosoft.com
56.	Pushpanjali A V	1MV19EC085@smvit.onmicrosoft.com
57.	Rahul Kumar	1MV19EC086@smvit.onmicrosoft.com
58.	Rishabh Jain	1MV19EC090@smvit.onmicrosoft.com
59.	Rishav Kumar Singh	1MV19EC093@smvit.onmicrosoft.com
60.	Ritik Kumar Singh	1MV19EC094@smvit.onmicrosoft.com
61.	Ritika Mishra	1MV19EC095@smvit.onmicrosoft.com
62.	Rohini	1MV19EC096@smvit.onmicrosoft.com
63.	Sandhya H	1MV19EC099@smvit.onmicrosoft.com
64.	Sanket Gupta	1MV19EC100@smvit.onmicrosoft.com
65.	Shashank G Naik	1MV19EC103@smvit.onmicrosoft.com
66.	Shraddha V Goudar	1MV19EC105@smvit.onmicrosoft.com
67.	Shubham Srivastava	1MV19EC106@smvit.onmicrosoft.com
68.	Shubhra Dixit	1MV19EC107@smvit.onmicrosoft.com
69.	Spoorthi Pk	1MV19EC109@smvit.onmicrosoft.com
70.	Sricharan R Iyengar	1MV19EC110@smvit.onmicrosoft.com
71.	Sudarsh Tandon	1MV19EC112@smvit.onmicrosoft.com
72.	Suhani	1MV19EC114@smvit.onmicrosoft.com
73.	Supriyo Sadhukha	1MV19EC116@smvit.onmicrosoft.com
74.	Syed Adnan	1MV19EC117@smvit.onmicrosoft.com

Sl.No.	Student Name	Email ID
75.	V Deepashree	1MV19EC119@smvit.onmicrosoft.com
76.	Varshini N S	1MV19EC120@smvit.onmicrosoft.com
77.	Vidya S	1MV19EC121@smvit.onmicrosoft.com
78.	Vikram S Bhat	1MV19EC122@smvit.onmicrosoft.com
79.	Vinutha H	1MV19EC124@smvit.onmicrosoft.com
80.	Vivek N Raj	1MV19EC125@smvit.onmicrosoft.com
81.	Yerramchetty Dwarakesh	1MV19EC127@smvit.onmicrosoft.com
82.	Bhuvana R	1MV19ET007@smvit.onmicrosoft.com
83.	Chandrika H A	1MV19ET008@smvit.onmicrosoft.com
84.	Charan S	1MV19ET009@smvit.onmicrosoft.com
85.	Deepa N S	1MV19ET011@smvit.onmicrosoft.com
86.	Diksha Bhartia	1MV19ET013@smvit.onmicrosoft.com
87.	Ganavi R	1MV19ET015@smvit.onmicrosoft.com
88.	K Jahnavi Devi	1MV19ET019@smvit.onmicrosoft.com
89.	Karun Sharma	1MV19ET020@smvit.onmicrosoft.com
90.	M A Mashitha	1MV19ET024@smvit.onmicrosoft.com
91.	Mohammed Hassaan Manna	1MV19ET028@smvit.onmicrosoft.com
92.	Olivia Kumar	1MV19ET029@smvit.onmicrosoft.com
93.	P Kalyan Kumar Reddy	1MV19ET030@smvit.onmicrosoft.com
94.	Ruchitha M	1MV19ET036@smvit.onmicrosoft.com
95.	Venna Venkata Siva Reddy	1MV19ET045@smvit.onmicrosoft.com
96.	Ashok Kumar G	1MV20EC400@smvit.onmicrosoft.com
97.	Gagangowda K M	1MV20EC402@smvit.onmicrosoft.com
98.	Kiran K N	1MV20EC403@smvit.onmicrosoft.com
99.	Manasa G B	1MV20EC406@smvit.onmicrosoft.com
100.	Manoj.P	1MV20EC407@smvit.onmicrosoft.com
101.	Vikas M	1MV20EC410@smvit.onmicrosoft.com

Sri Krishnadevaraya Educational Trust's

Sir M. Visvesvaraya Institute of Technology

Krishnadevaraya nagar, Hunasamaranahalli, International Airport Road,
Bangalore-562157

Department of Electronics and Communication Engineering
PG and Research Centre

Program Schedule

Date	Day	Contents	Resource person
14/07/2021	Wednesday	Introduction to MATLAB Generation of elementary signals Plotting the graphs	**Mrs. Seema S**
15/07/2021	Thursday	Introduction to MATLAB live editor Convolution of any two elementary signals Fourier Transforms of aperiodic signals such as rectangular pulse and sinc functions. Sampling Theorem: All 3 cases plotted	**Mrs. Seema S**
16/07/2021	Friday	Introduction to Control system Transfer Functions, Poles-Zeros and Pole-zero plot of a system, Response of a system with step and impulse input for first and second order system, Stability analysis of system using Root locus, Bode and Nyquist plots, Introduction to PID controller and its real time implementation and applications.	**Mrs. Vani B P**

SIR M VISVESVRAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranhalli, Off Airport Road, Bengaluru-562157

Department of Electronics and Communication Engineering

3 Days Student Development Program

On

"Hands on Session for Signals and Control Systems Engineering Applications using Matlab"

14th - 16th July 2021 (6-7 PM)

Organizers:

Dr. V R Manjunath,
Principal, Sir MVIT

Dr. R Sundaraguru,
Professor & HOD, Dept. of ECE

Faculty Coordinators:

Dr. Sasmita Mohapatra
Mrs. Seema S
Mrs. Vani B P
Mrs. Sheetal Bagali

Link for Registration: **https://forms.gle/mWajt2ogVd91SwHK7**
WhatsApp group link: **https://chat.whatsapp.com/GMwfn8R6RBB223kExGTNMl**

Sri Krishnadevaraya Educational Trust's

Sir M.VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Krishnadevaraya Nagar, Bengaluru, Karnataka 562157
Approved by AICTE | Affiliated to VTU. Belagavi | Accredited by NAAC

Department of Electronics and Communication Engineering

PARTICIPATION CERTIFICATE

presented to

Diksha Bhartia

Department of ETE, Sir MVIT on successful participation in the 3 days Student Development Program on ***"Hands on session for Signals and Control Systems Engineering Applications using MatLab"*** organized by the Department of Electronics and Communication Engineering, Sir MVIT from ***14th -16th July 2021.***

Dr R Sundaraguru
HOD, Dept of ECE

Dr V R Manjunath
Principal

Sri Krishnadevaraya Educational Trust's

Sir M. Visvesvaraya Institute of Technology

Krishnadevaraya nagar, Hunasamaranahalli, International Airport Road,
Bangalore-562157

Department of Electronics and Communication Engineering
PG and Research Centre

3 Days Student Development Program
On
"Hands on session on Signals and Control systems Engineering Applications using MatLab"

Report

The department of Electronics & Communication Engineering, conducted three days SDP on ***"Hands on session on Signals and Control systems Engineering Applications using MatLab"*** on 14th -16th July 2021. This SDP was sponsored by Sir KET.The Invitation for SDP was sent to 4th semester ECE and TCE students. The response was very good. Total number of participants were 100 in number. The registration started on 10th July 2021 online.

Inauguration started at 5.45 PM HOD, Dr. R. Sundaraguru, presided the inaugural function accompanied by Dr Sasmita Mahopatra, Associate professor, Dept. of ECE. Dr. Sasmita Mahopatra, Associate professor, Dept. of ECE, welcomed the Resource person for the program Mrs. Seema.S & Mrs. Vani B P and the participants. Dr. R. Sundaraguru, HOD, Dept. of ECE gave his presidential remarks and highlighted the importance of qualitative research. Inaugural function ended with vote of thanks.

On the first day, Mrs. Seema S., Assistant Professor, Dept. of ECE, Sir M.VIT, as a resource person started the first session at 6.00 pm with introduction to MATLAB and generation of elementary signals in signal processing.

Second day started with hands on session using MATLAB live editor. Instructions were given to use the live editor and simple programs on signal processing including Convolution, Fourier Transforms and their real time applications were discussed.

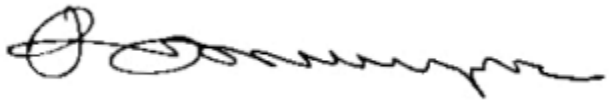
On Third day of the program Mrs. Vani B P Assistant Professor, Dept. of ECE, Sir M.VIT was the resource person, explained how MATLAB could be used in system design and analysis with transfer functions, response and stability analysis

of systems and also discussed the importance of PID controllers in real time designing.

On the third day, after the valedictory, feedback was received from the participants regarding the SDP. All three sessions were very informative, also queries raised from the participants were clarified. The three days SDP was conducted successfully.

Faculty Coordinators

Dr. Sasmita Mohapatra, Associate Professor, Dept. of ECE
Mrs. Vani B P, Assistant Professor, Dept. of ECE
Mrs. Seema S. Assistant Professor, Dept. of ECE
Mrs. Sheetal Bagali, Assistant Professor, Dept. of ECE



Dr. R Sundaraguru,
Professor & HOD, Department of ECE

Sri Krishnadevaraya Educational Trust's

Sir M. Visvesvaraya Institute of Technology

Krishnadevaraya nagar, Hunasamaranahalli, International Airport Road,
Bangalore-562157

Department of Electronics and Communication Engineering
PG and Research Centre

Feedback

Sl. No.	Full Name(to be printed on the certificate)	Does the program helped to Create, select, and apply appropriate techniques, resources and modern engineering and IT tools	Does the program provides methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	Does the program given opening for life-long learning!	Course content was organized and well planned	What aspects of this course were most useful or valuable?	Over all Feedback about the SDP	Any Suggestions for the improvement of the program
1	Aditya Singh	Yes	Yes	Yes	Excellent	Matlab was interesting to learn.	Excellent	It was overall good.
2	Harini Sampath	Yes	Yes	Yes	Excellent	Getting to know how versatile MATLAB is.	Excellent	Weekly or monthly sessions would be good, to know more about it.
3	Devika S G	Yes	Yes	Yes	Excellent	Valuable	Excellent	Nothing
4	K S Bhavishya	Yes	Yes	Yes	Very Good	It gave an overlook for MATLAB.	Very Good	It would be better if we had more lecturers.
5	Abhisheks masgal	Yes	Yes	Yes	Very Good	Analysing the theory part onto a more technical sort like understanding it with better graphs was the best.	Excellent	More on how to write the programmes