



Sir M Visvesvaraya Institute of Technology
Bengaluru-562157



*Department of Electronics & Communication Engineering
PG & Research Center*

From ,

Date : 28-DEC-2019

Dr Supriya V G
Professor , Department of ECE

4105
30/12/19
Through
The HOD , Dept of ECE
Sir MVIT

To
The Principal
Sir MVIT

Respected Sir,

Sub : Permission to conduct one-week National Level Student Development Program on 3-D Printing & Raspberry-Pi-Reg.,

With reference to the above subject, it is to bring to your kind notice that the Department of ECE, has planned to conduct a one Week National Level student development program on 3-D Printing & Raspberry –Pi in association with IEEE and ISTE Student Branch. It is expected that the students from various colleges from different states are expected to participate in the workshop. This will help the students enhance their practical exposure on the niche areas and making them industry ready no sooner they graduate.

In this regard, I request you to kindly permit us to conduct the program from March 2nd – 7th 2020. A sum of 1000/- is decided to be collected towards registration fee from each non-IEEE Member participant coming from other institutes and Rs.800/- IEEE Members from in house participants. The number of participants will be restricted to 50. 4 sets of kits with all the accessories would be purchased during the conduction and hands on will be delivered on these kits. Post workshop these kits would be deposited in the incubation center and will be made available for the students and faculty to carry out various projects of their interest.

A total expenditure of Rs.1, 50,000/- (One lakh fifty thousand only) is expected to incur for the conduction of this program. Rs.90, 000/- (Ninety Thousand is expected to be raised via registrations and funding from ISTE and VTU. I request you to kindly support us by giving the financial assistance for the remaining amount.

Thanking you,

Yours faithfully,

[Signature]
28/12/2019

Forwarded to Principal

[Signature] 28/12/19

Dr Supriya V G.

Executive Budgetary Proposal

[Signature]
28/12/19

[Signature]
28/12/19

Tentative budgetary proposal under various heads:

SL NO	PARTICULARS OF THE EXPENDITURE	AMOUNT in Rs.
1.	Printing of brochures 200 Nos	4000.00
2.	Postage n Delivery	2000.00
3.	Inauguration (bouquets, breakfast for dignitaries, post function snacks)	10000.00
4.	Design & Printing of certificates and banners	8000.00
5.	Lunch and refreshments for all the participants for 5 days (120X 75X5)	45000.00
6.	Remuneration for the resource Persons	60,000.00
7.	Purchase of Raspberry Pi Kits with accessories	21000.00
Total Expenditure		1,50,000.00
Amount expected to be collected via registrations, funding from ISTE, VTU		-90,000.00
<i>Balance amount required from ISTE</i>		<i>60,000.00</i>

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

No. 16, Ballari Road, Sadashivanagar, Bengaluru – 560 080

Ref.No.KET/ 59 /1260 /2019 – 2020

Date: 21/01/2020

NOTE:

Sub: Financial assistance for organizing One-Week National Level Student Development Programme (SDP) on “3-D Printing & Raspberry-Pi – Reg.

Ref: Letter from HOD, Dept. of Electronics & Communication Engg., dated 28/12/2019, recommended by the Coordinator, RAC, duly forwarded by the Principal.

With reference to the above, this is to convey approval for organizing One-Week National Level Student Development Programme (SDP) on “3-D Printing & Raspberry-Pi for the students of Electronics & Communication Engg., in association with IEEE and ISTE Student Branch between 2nd and 7th March, 2020.

Rs.50,000/- (Rupees Fifty Thousand only) is sanctioned to meet the expenditure. The amount may be drawn from Principal's SB account and reimbursement claimed later with duly audited bills and vouchers.


(K.SYAMA RAJU)
SECRETARY

To
The Principal,
Sir MVIT,
Bengaluru.

Copy to :

1. The HOD, Dept. of Electronics & Communication Engg., Sir MVIT, Bengaluru.
2. The Accounts Officer, Sri KET, Bengaluru.

By BIL

21-01-2020

SRI KRISHNADEVARAYA EDUCATIONAL TRUST
No. 16, Ballari Road, Sadashivanagar, Bengaluru – 560 080

Ref.No.KET/ 59 /1260 /2019 – 2020

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2. The Accounts Officer, Sri KET, Bengaluru.

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranahalli, Bangalore -562157
Department of Electronics & Communication Engineering

Student Development Program
"3D printing and Raspberry-Pi"
2nd - 6th March 2020

Date: 2/3/2020

Sl. No.	USN	Name of Participant	Signature	
			Morning	Afternoon
1	-	Santhosh	<i>Santhosh</i>	<i>Santhosh</i>
2	-	Kavya M.R	<i>Kavya</i>	<i>Kavya</i>
3	IMV17EC046	Jayanth M.B	<i>Jayanth</i>	<i>Jayanth</i>
4	IMV17EC036	Dhakarjya B.R.	<i>Dhakarjya</i>	<i>Dhakarjya</i>
5	IMV17EC063	MONISH B.V	<i>Monish</i>	<i>Monish</i>
6	IMV17EC044	Hairam J	<i>Hairam</i>	<i>Hairam</i>
7	IMV17EC051	KAUSHIK KUMAR	<i>Kaushik</i>	<i>Kaushik</i>
8	IMV17EC061	MEHUL JAIN	<i>Mehul</i>	<i>Mehul</i>
9	IMV17ME076	SUBODH RAKSHIT	<i>Subodh</i>	<i>Subodh</i>
10	IDB18EC059	Komala S.Hiremath	<i>Komala</i>	<i>Komala</i>
11	IDB18EC063	LEKHA ARPUN.C.	<i>Lekha</i>	<i>Lekha</i>
12	IMV18EC085	Sakshi H.S	<i>Sakshi</i>	<i>Sakshi</i>
13	IMV18EC055	I.Morisha shakthi	<i>Morisha</i>	<i>Morisha</i>
14	IMV18EC082	Sahana V	<i>Sahana</i>	<i>Sahana</i>
15	IMV18EC107	Spandana H.V	<i>Spandana</i>	<i>Spandana</i>
16	IMV18EC126	Swathi P	<i>Swathi</i>	<i>Swathi</i>
17	IMV18EC101	SHRANYA	<i>Shranya</i>	<i>Shranya</i>
18	IMV18EC087	SANA ISMAIL	<i>Sana</i>	<i>Sana</i>
19	IMV18EC076	RANJITHA.P	<i>Ranjitha</i>	<i>Ranjitha</i>
20	IMV18EC031	Dollina Shreeya	<i>Dollina</i>	<i>Dollina</i>
21	IMV18EC047	Letha K	<i>Letha</i>	<i>Letha</i>
22	IMV18EC124	A.Gowri Pooja	<i>Gowri</i>	<i>Gowri</i>
23	IMV18EC043	KHUSHI N.RAJ	<i>Khushi</i>	<i>Khushi</i>
24	IMV18TE030	RAJESHWARI GUPTA	<i>Rajeshwari</i>	<i>Rajeshwari</i>
25	IMV18EC014	ANJALI	<i>Anjali</i>	<i>Anjali</i>
26	IMV18EC115	Vaishnavi Venma	<i>Vaishnavi</i>	<i>Vaishnavi</i>
27	IMV18EC113	Tejeshwini B.Dudbhatte	<i>Tejeshwini</i>	<i>Tejeshwini</i>
28	IMV18ME063	Prateek S.	<i>Prateek</i>	<i>Prateek</i>
29	IMV18ME037	Hitesh Kumar	<i>Hitesh</i>	<i>Hitesh</i>
30	IMV18ME036	Karishk Gang	<i>Karishk</i>	<i>Karishk</i>
31	IMV18ME058	PARIKSHIT BR	<i>Parikshit</i>	<i>Parikshit</i>
32	IMV17EC010	Umay	<i>Umay</i>	<i>Umay</i>

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranahalli, Bangalore -562157

Department of Electronics & Communication Engineering

Student Development Program "3D printing and Raspberry-Pi"

2nd – 6th March 2020

Date: 3/3/2020

Sl. No.	USN	Name of Participant	Signature	
			Morning	Afternoon
1	IMV17EC057	LIKHITA L GROVERA	<i>Lg</i>	<i>Lg</i>
2	IMV17EC053	KRATHI TODALBAGI	<i>Kr</i>	<i>Kr</i>
3	IMV17EC055	KRITHIKA . J	<i>Kr</i>	<i>Kr</i>
4	IMV17EC009	Ankitha . C	<i>Ankitha</i>	<i>Ankitha</i>
5	IMV17EC023	Banitra Senthil	<i>Banitra</i>	<i>Banitra</i>
6	IMV17EC058	Nishanth	<i>Nishanth</i>	<i>Nishanth</i>
7	IMV17EC059	Muaz Ahmed	<i>Muaz</i>	<i>Muaz</i>
8	IMV17EC013	Ashik Jacob	<i>Ashik</i>	<i>Ashik</i>
9	IMV17EC010	Umair Ansari	<i>Umair</i>	<i>Umair</i>
10	IMV17EC034	Deepak M	<i>Deepak</i>	<i>Deepak</i>
11	IDT19ME017	NAGANANDANA.V	<i>Nag</i>	<i>Nag</i>
12	IDT19ME001	ADARSHA.S	<i>Adarsh</i>	<i>Adarsh</i>
13	-	Santhosh	<i>Santhosh</i>	<i>Santhosh</i>
14	-	Kavya	<i>Kavya</i>	<i>Kavya</i>
15	IDB18EC063	Alkitha Arjun k.	<i>Alkitha</i>	<i>Alkitha</i>
16	IDB18EC059	Komala . S. Hiremath	<i>Komala</i>	<i>Komala</i>
17	IMV18EC085	Gaksh . H . S	<i>Gaksh</i>	<i>Gaksh</i>
18	IMV18EC055	J. mam'shashakthi	<i>J. mam'shashakthi</i>	<i>J. mam'shashakthi</i>
19	IMV18EC083	Sahana . V	<i>Sahana</i>	<i>Sahana</i>
20	IMV18EC107	spanandana H.V	<i>Spanandana</i>	<i>Spanandana</i>
21	IMV18EC031	Shreya D	<i>Shreya</i>	<i>Shreya</i>
22	IMV18EC076	RANJITHA.P	<i>Ranjitha</i>	<i>Ranjitha</i>
23	IMV18EC103	Sivisha J.C	<i>Sivisha</i>	<i>Sivisha</i>
24	IMV18EC054	MEGHANA . M	<i>Meghana</i>	<i>Meghana</i>
25	IMV18EC053	Meghana . K	<i>Meghana</i>	<i>Meghana</i>
26	IMV18EC099	Shivani . N . S	<i>Shivani</i>	<i>Shivani</i>
27	IMV18EC101	SHRAVYA	<i>Shravya</i>	<i>Shravya</i>
28	IMV18EC113	Tejshwini B Dudhahatti	<i>Tejshwini</i>	<i>Tejshwini</i>
29	IMV18EC087	SANA ISMAIL	<i>Sana</i>	<i>Sana</i>
30	IMV18EC126	SWATHI . P	<i>Swathi</i>	<i>Swathi</i>
31	IMV18EC115	VAISHNAVI VERMA	<i>Vaishnavi</i>	<i>Vaishnavi</i>
32	IMV18EC043	KHUSHI . N . RAJ	<i>Khushi</i>	<i>Khushi</i>

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Department of Electronics & Communication Engineering

Student Development Program "3D printing and Raspberry-Pi"

2nd - 6th March 2020

Date: 4/3/2020

Sl. No.	USN	Name of Participant	Signature	
			Morning	Afternoon
1	IMV17EC034	DEEPAK M	Deepak	Deepak
2	IMV17EC013	ASHIK JACOB	Ashik	Ashik
3	IMV17EC010	AMA UMMAIY	AMA	Umaiy
4	IMV17EC058	Nishanth	Nishanth	Nishanth
5	IMV17EC059	Maaz	Maaz	Maaz
6	IDT19ME427	SYED AAKHIL MUHAMMAD	Syed Aakhil	Syed Aakhil
7	IDT19ME428	SYED SHUAB	Syed Shuab	Syed Shuab
8	IDT19ME417	NAGANANDANA.U	Naga	Naga
9	IDT19M401	ADARSHA.S	Adarsha	Adarsha
10	-	SANTOSH	Santosh	Santosh
11	IDB18EC059	KOMAL.S.HIREMATH	Komal	Komal
12	IDB18EC063	LIKITHA.ARJUN.K	Likitha	Likitha
13	IMV18EC103	SIRISHA.J.C	Sirisha	Sirisha
14	IMV18EC099	SHIVANI.N.S	Shivani	Shivani
15	IMV18EC076	RANJITHA.P	Ranjitha	Ranjitha
16	IMV18EC053	Meghana K	Meghana	Meghana
17	IMV18EC054	Meghana M	Meghana	Meghana
18	IMV18EC126	Swathi.P	Swathi.P	Swathi.P
19	IMV18EC113	Tejeshwini.B.Dudhakar	Tejeshwini	Tejeshwini
20	IMV18EC101	SHRAYYA	Shrayya	Shrayya
21	IMV18EC115	Vaishnavi Venud	Vaishnavi	Vaishnavi
22	IMV18EC087	Sana Ismail	Sana Ismail	Sana Ismail
23	IMV18EC043	KHUSHI.N.RAJ	Khushi.N.Raj	Khushi.N.Raj
24	IMV18EC014	ANJALI	Anjali	Anjali
25	IMV18EC047	LEKHA.C	Lekha	Lekha
26	IMV17EC046	Jayanthi.M.B	Jayanthi	Jayanthi
27	IMV17EC061	Mehul-Jain	Mehul	Mehul
28	IMV17EC036	Dhananjay B.R.	Dhananjay	Dhananjay
29	IMV17ME076	Subodh Rakshit	Subodh	Subodh
30	IMV17EC063	MONISH B.V	Monish	Monish
31	IMV17EC044	Hariram J	Hariram	Hariram
32	IMV17EC051	Kaushik kumar	Kaushik	Kaushik

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranahalli, Bangalore -562157
Department of Electronics & Communication Engineering

Student Development Program
"3D printing and Raspberry-Pi"
2nd - 6th March 2020

Date: 5/3/2020

Sl. No.	USN	Name of Participant	Signature	
			Morning	Afternoon
1	IMV17EC061	Mehul - Jain	Mehul	Mehul
2	IMV17EC051	KAUSHIK KUMAR	Kaushik	Kaushik
3	IMV17EC063	MONISH B.V	Monish	Monish
4	IMV17EC044	Hariram J	Hariram	Hariram
5	IDB18EC059	Komala.S.Hiremath	Komala	Komala
6	IDB18EC063	Ikitha.Arjun.K	Ikitha	Ikitha
7		Kavya. M.R	Kavya	Kavya
8	IMV17EC023	Banitra Sruithi.S	Banitra	Banitra
9	IMV17EC055	Krithika.J	Krithika	Krithika
10	IMV17EC057	hikhita.G	Hikhita	Hikhita
11	IMV17EC053	Krathi.T	Krathi	Krathi
12	IMV17EC009	Ankitha.C	Ankitha	Ankitha
13	IMV18EC054	MEGHANA.M	Meghana	Meghana
14	IMV18EC053	MEGHANA K	Meghana	Meghana
15	IMV18EC103	Srishta J.C	Srishta	Srishta
16	IMV18EC099	Shivani.N.S	Shivani	Shivani
17	IMV18EC087	SANA ISMAIL	Sana	Sana
18	IMV18EC101	SHRAYA	Shraya	Shraya
19	IMV18EC113	Tejaswini	Tejaswini	Tejaswini
20	IMV18EC115	Vaishnavi Vesma	Vaishnavi	Vaishnavi
21	IMV18EC126	Swathi	Swathi-P	Swathi, P.
22	IDT19ME428	SYED SHUAIB	Syed Shuaib	Syed Shuaib
23	IDT19ME416	Mo. Shasrabh	Mo. Shasrabh	Mo. Shasrabh
24	IDT19ME417	NAGANANDANA.U	Naga	Naga
25	IDT19ME427	SYED AAKHIB	Syed Aakhil	Syed Aakhil
26	IDT19ME401	ADARSHA.S	Adarsha	Adarsha
27	IMV18EC124	A. Jansi Pooja	A. Jansi	A. Jansi
28	IMV18EC014	ANJALI	Anjali	Anjali
29	IMV18TE030	RAJESHWARI GUPTA	Rajeshwari Gupta	Rajeshwari Gupta
30	IMV18EC043	KHUSHI.N.RAJ	Khushi.N.Raj	Khushi.N.Raj
31	IMV18EC047	LECHA.F	Lecha	Lecha
32	IMV17EC058	Nishanth	Nishanth	Nishanth

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranahalli, Bangalore -562157

Department of Electronics & Communication Engineering

Student Development Program "3D printing and Raspberry-Pi" 2nd - 6th March 2020

Date: 6/3/2020

Sl. No.	USN	Name of Participant	Signature	
			Morning	Afternoon
1	-	Santosh	Santosh	
2	-	Kanyu	Kanyu	
3	IDB18EC063	LEKHA. Arjun. K	Lik	Lik
4	IDB18EC059	Komala.S. Hiremath	K.S.	K.S.
5	IMV18EC101	Shravya	Shravya	Shravya
6	IMV18EC115	Vaishnavi Verma	Vaishnavi	Vaishnavi
7	IMV18EC126	Swathi	Swathi P.	Swathi
8	IMV18EC113	Tejeshwari. B	Tejeshwari	Tejeshwari
9	IMV18EC087	Sana Ismail	Sana Ismail	Sana Ismail
10	IMV18EC053	Meghana.K	Meghana.K	Meghana
11	IMV18EC054	Meghana.M	Meghana.M	Meghana .m
12	IMV18EC099	SHIVANI.N.S	Shivani.N.S.	Shivani
13	IMV18EC103	SIRISHA.J.C	Sirisha.J.C.	Sirisha.J.C
14	IMV17EC009	Anitha.C	Anitha	
15	IMV17EC023	Bavitra Sruthi	Bavitra	
16	IMV17EC053	Krathi.R. Todalagi	Krathi	
17	IMV17EC055	Krithika Jayakerthi	Krithika	
18	IMV17EC057	LEKHA GOVINDAS	Lekha	
19	IMV17EC010	Ansari Md Abdul Umair	Umair	Amu
20	IMV17EC058	Nishanth	Nishanth	Nishanth
21	IMV17EC034	Deepak . M	Deepak.M	Deep
22	IMV17EC059	Maaz Ahmed	Maaz	Maaz Cabr
23	IMV18EC107	Spandana H.V	S	S
24	IMV18EC085	Sakshi H.S	Sakshi	Sakshi
25	IMV18EC083	Sahana V.	Sahana V	Sahana V.
26	IMV18EC055	Monisha	M	M
27	IMV18EC076	Ranjitha P	R	R
28	IMV18EC031	Shreya	Shreya	Shreya
29	IMV18EC047	LEKHA.K	Lekha	Lekha
30	IMV18EC124	AGDORI POOJA	Pooja	Pooja
31	IMV18ME062	Poateek.S.	Poateek.S.	Poateek.S
32	IMV18ME058	Paalishit BR	Pari.B.R.	Paalishit

REGISTRATION FORM

Five day National level SDP on "3D Printing and Raspberry-Pi" 2nd to 6th March 2020

Name :

USN:

Department:

Institution :

.....

Mobile:

IEEE membership ID no. (if member):

E-mail:

Signature of the
Applicant

Signature of HOD
with seal

Students are informed to scan the duly filled form
and send to the below mail id.

workshop.mvit2020@gmail.com

CHIEF PATRONS

Dr. A.C Chandrashekar Raju President, Sri KET
Sri K.V Sekhar Raju Vice President, Sri KET
Sri K Syama Raju Secretary, Sri KET
Sri M.Venkataramana Raju Treasurer, Sri KET
Sri G Prabhakar Raju Academic Chairman

ORGANISING CHAIR

Dr. V.R Manjunathsm Principal
Professor & HOD ECE

CONVENER

Dr. R. Sundaraguru Professor & HOD ECE

CHIEF CO-ORDINATOR

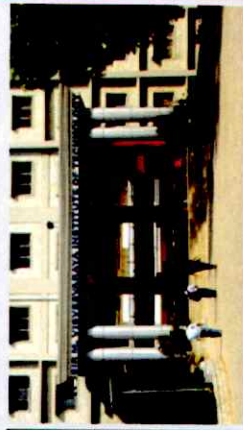
Dr. Supriya V.G Professor , ECE

CO-ORDINATORS

Dr. Kavitha G.R Associate Professor
Mr.Naveen I G Assistant Professor
Mr.Phanindar Ravi P Assistant Professor

ORGANIZING COMMITTEE

Dr. Sasmita Mohopatra Associate Professor
Mrs. Krishna Priya Sharma Associate Professor
Mr. Satish Kumar Associate Professor
Mrs. Shalini P Associate Professor
Mrs. Vijaya Lakshmi S Associate Professor
Mrs. Seema S Assistant Professor
Mrs. Soumya Nadgir Assistant Professor
Mrs. Praveena N Assistant Professor
Mrs. Bhuvaneswari Assistant Professor
Mrs. Swetha L Assistant Professor
Mrs. Rajeshwari K N Assistant Professor
Mrs. Poongothai C Assistant Professor
Mrs. Vijayashri B Assistant Professor
Mrs. Sheetal Bagali Assistant Professor



Five day National level SDP on "3D Printing and Raspberry-Pi" 2nd to 6th March 2020

Jointly organized by Dept.of ECE,
Sir MVIT IEEE Student Branch &

SMVIT- ISTE Student Chapter
In Association With

Xtrans Solutions Pvt. Ltd.,

Advanced Electronic Systems.

InviHub Techno-solutions Pvt. Ltd.,



XTRANS



InviHub Techno-solutions Pvt. Ltd.

Venue: Marconi Seminar Hall, SMVIT

SPONSORED BY

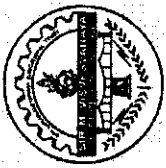
Sri Krishnadevaraya Educational Trust & ISTE

**SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY**

(An ISO 9001:2008 Certified Institution)

International Airport Road, Krishnadevaraya Nagar,
Hunasamarahalli, Bengaluru-562 157

Website: www.sirmvit.edu

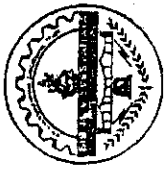


Sir M. Visvesvaraya Institute of Technology, Bengaluru-562157
Department of Electronics and Communication Engineering

FIVE DAY NATIONAL LEVEL SDP ON "3D PRINTING AND RASPBERRY-PI"

2ND TO 6TH MARCH 2020

DAY	SESSION 1 9:30-10:45AM	10:45-11:00 AM	SESSION 2 11:00-1:00 PM	1:00-1:30 PM	SESSION 3 1:30-3:00PM	3:00-3:15 PM	SESSION 4 3:15-4:15 PM
DAY1	INAUGURATION	TEA BREAK		Introduction to IoT, Hardware and Sensors. Demo on Arduino Board and Arduino IDE and Sensors	ESP8266 and Arduino UNO	TEA BREAK	
DAY2	Introduction to Protocols like MQTT, HTTP, CoAP, LoRa, Bluetooth	Introduction to Raspberry Pi 3 Installation and basic setup			Hands on session on Raspberry Pi 3 with different sensors	ESP8266 and Arduino UNO	Sending & Receiving Data to & from Cloud
DAY3	Introduction to IoT Applications	Demo on Bluetooth Controlling from mobile App Using Arduino and Raspberry Pi 3		LUNCH BREAK	Demo on TCP/IP Communication Using Arduino and Raspberry Pi 3	Sending & Receiving Data to & from Cloud	
DAY4	Introduction to 3D Printing. Types of 3D Printing Technology and how it works.	Basic Introduction on Building a 3D Printer.			Complete explanation on Electronics and Mechanical Concept needed to build a 3D Printer	Quiz	Explanation on the Software Concept needed to build a 3D Printer
DAY5	Building a 3D Printer by assembling a DIY Kit from INVI-HUB.	SESSION 1 continued		Brief explanation on the Software to be used in 3D Printing Technology and 3D Modelling.		VALEDICTORY	



Sir M. Visvesvaraya Institute of Technology, Bengaluru-562157
Department of Electronics and Communication Engineering

FIVE DAY NATIONAL LEVEL SDP ON "3D PRINTING AND RASPBERRY-PI"

2ND TO 6TH MARCH 2020

DAY	SESSION 1 9:30-10:45AM	10:45-11:00 AM	SESSION 2 11:00-1:00 PM	1:00-1:30 PM	SESSION 3 1:30-3:00PM	3:00-3:15 PM	SESSION 4 3:15-4:15 PM
DAY1	INAUGURATION	TEA BREAK	Introduction to IoT, Hardware and Sensors. Demo on Arduino Board and Arduino IDE and Sensors	LUNCH BREAK	ESP8266 and Arduino UNO	TEA BREAK	Sending & Receiving Data to & from Cloud
DAY2	Introduction to Protocols like MQTT, HTTP, CoAP, LoRa, Bluetooth						
DAY3	Introduction to IoT Applications	TEA BREAK	Demo on Bluetooth Controlling from mobile App Using Arduino and Raspberry Pi 3	LUNCH BREAK	Demo on TCP/IP Communication Using Arduino and Raspberry Pi 3	TEA BREAK	Quiz
DAY4	Introduction to 3D Printing. Types of 3D Printing Technology and how it works.						
DAY5	Building a 3D Printer by assembling a DIY Kit from INVI-HUB.	TEA BREAK	SESSION 1 continued	LUNCH BREAK	Brief explanation on the Software to be used in 3D Printing Technology and 3D Modelling.	TEA BREAK	VALEDICTORY

SIR M. VISVESVARAYA
INSTITUTE OF TECHNOLOGY

ALS

XTRANS

Madhwaraya Educational Trust's
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Accredited by NAAC New Delhi

ISO 9001:2008 certified Institution



Interact Innovate Inspire

Certificate

This is to certify that Mr/ Ms _____ of _____

has participated in the 5 day National level student Development Program on "3D PRINTING AND RASPBERRY PI", from 2nd to 6th March 2020, organized by Dept. of ECE, in association with Xtrans Solutions Pvt. Ltd. , Advanced Electronics Systems Pvt. Ltd. , Invihub Techno Solutions Pvt. Ltd. Sponsored by KET and ISTE.

Dr R Sundaraguru
HOD, Dept of ECE

Mr.Sunil T. Shambhatnavar
General Manager, ALS Pvt. Ltd.

Dr. Suresh B
Chairman ISTE-Karnataka



Department of ELECTRONICS & COMMUNICATION ENGINEERING

National Workshop on
"3D printing and Raspberry-Pi"
2nd – 6th March 2020

(Please tick the appropriate box)

	Excellent	Good	Satisfactory
1. Presentation	[✓]	[]	[]
2. Practical to My Needs and Interests	[✓]	[]	[]
3. Well Organized	[✓]	[]	[]
4. Hands- on Sessions	[✓]	[]	[]
5. Instructor's Knowledge	[✓]	[]	[]
6. Topic relevance	[✓]	[]	[]
7. Topic Coverage	[✓]	[]	[]
8. Hospitality	[✓]	[]	[]
9. Interaction	[✓]	[]	[]

Any other comments or suggestions

Conduction of these types of workshop will be beneficial for us. This workshop helps me to gather new information about real world, invention and ideas

Overall, how would you evaluate this Student Development Program?

Excellent [✓] Good [] Satisfactory []

Name: KAUSHIK KUMAR

Kaushik
Signature

College: SMVIT



Department of ELECTRONICS & COMMUNICATION ENGINEERING

National Workshop on
"3D printing and Raspberry-Pi"
2nd – 6th March 2020

(Please tick the appropriate box)

	Excellent	Good	Satisfactory
1. Presentation	[/]	[]	[]
2. Practical to My Needs and Interests	[/]	[]	[]
3. Well Organized	[/]	[]	[]
4. Hands- on Sessions	[/]	[]	[]
5. Instructor's Knowledge	[/]	[]	[]
6. Topic relevance	[/]	[]	[]
7. Topic Coverage	[/]	[]	[]
8. Hospitality	[/]	[]	[]
9. Interaction	[/]	[]	[]

Any other comments or suggestions

.....
.....

Overall, how would you evaluate this Student Development Program?

Excellent [/] Good [] Satisfactory []

Name: Jayanth. M.B

College: SIR.MVIT

Signature

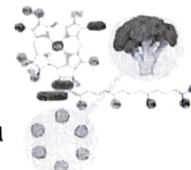
Third Intensive Workshop on Downstream Processing of Phytopharmaceuticals - Research & Industrial Applications
Duration – 10 Saturdays (25th August to 3rd November, 2018)
(A collaborative effort of Himalaya Drug Company and Sir MVIT)

Venue: Dept. of Biotechnology, Sir MVIT

Himalaya
SINCE 1930



Organized By
Department of Biotechnology
Sir M Visvesvaraya Institute of Technology
Krishnadeveraya Nagar, New International Airport Road
Hunasamaranahalli, Bangalore - 562157



Coordinator

Dr RAJENDRA SINGH C



Third Integrative Workshop on Downstream Processing of Phytopharmaceuticals - Research & Industrial Applications Duration - 10 Days (Only on Saturdays) 25th August - 3rd November, 2018 Venue : Department of Biotechnology, Sir MVIT College, Bangalore-562157



INTRODUCTION

In recent years, there is a tremendous growth in herbal products and a progressive popularity in accepting traditional medicines and Ayurveda as a system of medicine in several European countries. With the present potential of approximately 70-80 billion dollars of global market, the herbal industry is expected to touch around 5 trillion dollars by 2020. India has a strong indigenous knowledge of traditional therapies and huge untapped resources in this front. India has to gear up to become a leader in herbal products and develop associated critical talent pool in the areas like pharmacognosy, phytochemistry, bioprocess engineering, biotechnology, tissue culture, medicinal chemistry, bioassays and clinical trials, etc.

In the current IT scenario, Pharma industry has diverted a lot of funds towards developing new molecules which can be patented. The untapped knowledge of potential therapeutic substances from the herbs can be a treasure for drug research in India.

The skill set available to work in this developing sector is diminishing, as interests of the graduates is skewed towards fluent professions like IT and other allied services. The courses offered in biological sciences and biotechnology are not aligned with the requirement of the industry, and thereby the qualified graduates often find difficulty in getting suitable jobs. This workshop will not only help the students to get acquainted to the technological advancements in the pharmaceutical but also expose them to various opportunities available in the phytopharmaceuticals sector.

THE HIMALAYA DRUG COMPANY

Himalaya is household brand today. Every second Himalaya products are sold globally. With a range of over 80 products spanning pharmaceutical, personal care, baby care, animal health and wellness space, Himalaya touch the lives of millions of customers worldwide. Our products that help them lead healthier, enriched lives. Himalaya is focused on converting Ayurveda's rich tradition into a range of proprietary formulations dedicated to healthy living and longevity. Himalaya scientists have been closely researching herbs for over 80 years. Using this time, we have unearthed several breakthrough formulations. Himalaya's seed to shelf philosophy ensure that we are engaged in the entire process of product development from raw material to finished product. Himalaya ensures that herbs are collected in a sustainable way worldwide, the Himalaya brand is synonymous with safe and efficacious, herbal healthcare and personal care products. It has a network of offices in over 90 countries to help us stay connected to our customers.

SIR MVIT

Started in 1986, Sir MVIT has been an institute of technical reputation in the state of Karnataka, offering nine undergraduate programmes and five post-graduate programmes. The institute is affiliated to Visvesvaraya Technological University (VTU) and approved by the All India Council for Technical Education (AICTE). The institute is also certified by DSIR, SIRO and ISO-9001:2008. Most of its courses are accredited by the National Board of Accreditation (NBA), New Delhi. Seven of its departments are declared as R & D centers by VTU. The faculty of the institute are carrying out projects sponsored by various funding agencies like AICTE, UGC, AR&D, DST, IIT, VTU, Ministry of power, etc.

DEPT. OF BIOTECHNOLOGY

Sir MVIT was the first college under VTU to realize the need for an Engineering Course in Biotechnology wherein a student's mathematical abilities, computational talent and analytical skills, could be trained to appreciate the complexities of the biological world. The long-term objective of developing such an interface is directed towards sustainable growth & development, while generating products relevant to society.

After its inception in 2002, the Department of Biotechnology at Sir MVIT has relentlessly worked towards targets and milestones. Equipped with quality lab facilities for graduate, post-graduate and research programs, the department is aiming to achieve excellence in select to domain related bioscience, bioengineering and biotechnology.

FACILITATORS

- | | |
|--|--|
| Module - 1
(25th Aug & 1st Sept) | Module - 3
(22nd & 29th Sep & 6th Oct) |
| Dr. Ganesh | Dr. U V Babu |
| Dr. R. Kannan | Dr. Vijayakumar |
| Dr. Prasanna | Dr. Priyank Mangal |
| Mr. Zakir Hussain | Mr. Sharath Kumar L.M |
| Mr. Sumanth | Module - 4 (13th & 27th Oct) |
| Mr. Sandeep | Dr. Vishwanathan, Dr. U.V. Babu |
| Module - 2
(3rd & 10th Sept) | Module - 5 (3rd Nov) |
| Dr. Gururaj | Inspire by Leaders |
| Dr. Dhananiya | |
| Mr. Kaghavendra | |

MODULES & DURATION

- | | |
|--------------------------|-------------------------|
| Total Duration | 10 Saturdays |
| Every Saturday | 10 am - 4 pm. |
| Theory Classes | 2 h on Saturdays |
| Hands on Sessions | 3 h on Saturdays |
| Total Credits | 50 Credits |
| Total Seats | Limited to 30 |

MODULE 1 (10 CREDITS)

- Introduction to the indigenous systems of medicine**
1. Ayurveda
 2. Siddha
 3. Unani
 4. Drug substances: Herbs, Animals, Minerals, Metals
 5. Proprietary Medicines
 6. Doctrine of Signatures

- Ethnobotany**
1. Ethnobotany
 2. Bioprospecting
 3. Biopiracy
 4. TRDL

- Biodiversity**
1. Agroclimatic zones
 2. Biodiversity Hotspots
 3. BSI

- National & International trade on endangered species**
1. International Regulation - CITES
 2. National Regulation - Negativelisted

Pharmacognosy & GACP

1. Herbs - authenticity, quality, purity, safety
2. Pharmacognosy
3. Authentication of herbs: Microscopic, Macroscopic, powder characters
4. DNA fingerprinting/ Barcode
5. Herbs cultivation
6. Good Agricultural and Collection Practices

MODULE 2 (10 CREDITS)

Plant Biotechnology

1. Introduction
2. Scope of Biotechnology
3. Green revolution
4. Impact of plant Biotechnology on human kind
5. Basics for laboratory setup

Plant Tissue Culture (plant cloning)

1. Recombinant DNA technology (Gene cloning)
2. Hormone Functions in Plants
3. Various kinds of media
4. Composition of media and its significance
5. Enhancement of secondary metabolites

Endangered species and Biotechnology approaches

1. Introduction of Endangered sp.
2. Role of Tissue culture in endangered species with respect to CITES, NBA, NMFB
3. Application of biotechnology in Conservation of species

Bioprocessing engineering and its industrial applications Hairy root culture in medicinal plants

1. What is hairy root culture?
2. How it is beneficial in Plant system
3. Advantages of HR culture
4. Methods involved in HR culture
5. Role of A. tumefaciens to Genetically Engineer Plants

What is a GMO and Issues of Non-GMO herb material?

1. Introduction of GMO plants in India
2. What is the difference between a traditional breed and GMO?
3. Current Status of GM Crops in India
4. Guidelines for the Safety Assessment of Foods Derived from LMO Plants
5. Regulatory framework for GMO's in India

Hydroponics: An Alternative Plant Growing Method

1. Introduction
2. Types of Hydroponics
3. Methods involved in Hydroponics
4. Advantage of the process

MODULE 3 (15 CREDITS)

Natural Product Chemistry

1. Basics of Natural Product Chemistry
2. Classification of Natural Products
3. Drug Discovery from Natural Products
4. Downstream processing of herbs/plant materials
5. Analytical and Bioactive markers

Extraction & Isolation of Bioactive compounds

1. Types of Extraction
2. Concentration and Drying
3. Advanced extraction techniques
4. Chromatography
5. Characterisation of Natural Products

Spectroscopy

1. Basics of Spectroscopy
2. UV & IR Spectroscopy
3. Nuclear Magnetic Resonance (NMR)
4. Mass Spectroscopy
5. Advanced spectroscopy techniques for identification of bioactive markers
6. Assignments / Group Activities / Quiz / Presentations

MODULE 4 (10 CREDITS)

Basics of Process Engineering

1. Introduction
2. Application of process engineering in industries

Industrial set up of Phytopharmaceuticals

1. Comparison of lab and commercial process

Lab Scale to Pilot Scale

1. Process design and engineering
2. Concept of scale up

Process Validation

1. Process Design
2. Process Qualification
3. Process Verification

Extraction Process

1. Introduction to commercial scale extraction process
2. Various types of extraction processes
3. Advance extraction techniques

Concentration Process

1. Introduction to concentration process
2. Selection of process parameters

Drying Process

1. Introduction to drying, different industrial drying methods
2. Selection of drying techniques

Recent advances in automation

1. Introduction to process automation
2. Need for process automation
3. Advances in process automation

MODULE 5 (5 CREDITS)

- Inspiring Talks by Leaders, Entrepreneurs and Experts
- Assignments / Group Activities / Quizzes / Presentations / Discussions

Credits and Assessments

%Marks	Grade	Point	Letter Grade
85-100	10	10	A
75-84.99	9	9	B
65-74.99	8	8	B
55-64.99	7	7	B
40-54.99	6	6	C
20-39.99	4	4	D
0-24.99	2	2	F

Assessments in the form of Group Activities / Quizzes / MCQs, Idea Presentations / Discussions shall be conducted by Industry experts and Facilitators to grade the candidates

Who Can Attend

Eligibility: Graduate/Post Graduate students from Basic sciences, Life Sciences and Engineering sciences like Pharmacy, Chemistry, Botany, Zoology, Microbiology, Biochemistry, Biotechnology, Genetics, Genetic Engineering, Biotech Engineering and Chemical Engineering can register

Course Fees & Registration Details

Please Contact the Faculty/Course Coordinator and register for the program by paying the defined fees on or before 21st August 2018 at the following

ADDRESS
Dr C Rajendra Singh
Associate Professor, Department of Biotechnology,
Sir M Visvesvaraya Institute of Technology,
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore 562157
Contacts: 91-80-28477026, +91-9341809544

Email: rajendrabiochem@gmail.com
Course Fees: Rs. 2,000/-
(Rupees Two Thousand Only)

- ✓ Certificate of Participation will be only given to those registered candidates who possess a minimum of 50% attendance at the workshop and secure a Credit Point Average of >5.0
- ✓ Certificate of Merits with Course Grades and Awards will be distributed on the last day of the event to the Top 5 performers of the workshop
- ✓ Participants can avail the college bus facility for these 10 Saturdays to reach the college campus

Xerox ✓

SRI KRISHNADEVARAYA EDUCATIONAL TRUST
No. 16, Ballari Road, Sadashivanagar, Bengaluru – 560 080

Ref.No.KET/ 157 /2018- 2019/546

Date: 17/07/2018


NOTE:

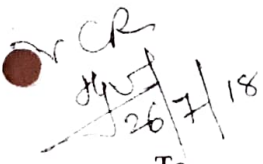
Sub: Financial assistance for organizing Third Intensive Workshop on “Downstream Processing of Phytopharmaceuticals – Research and Industrial Applications” - Reg.

Ref: Letter from HOD, Dept. of Bio-Technology No. VIT/BT/104/2017-2018, dated 03/07/2018, signed by HOD and recommended by Convenor, Research Advisory Committee, with Principal's endorsement No. 1648, dated 04/07/2018.

With reference to the above, this is to convey approval for organizing Third Intensive Workshop on “Downstream Processing of Phytopharmaceuticals – Research and Industrial Applications” as per the requirement of NBA and NAAC to hone the skills of students to suit to the job market requirements, on Saturdays for a duration of 10 weeks starting from 18th August to 3rd November, 2018, by industry experts from Himalay Drug Company, Bengaluru.

Rs.30,000/- (Rupees Thirty Thousand only) is granted which may be drawn from Principal's SB account and reimbursement claimed later with duly audited bills and vouchers


(K. SYAMA RAJU)
SECRETARY


To
The Principal,
Sir MVIT, Bengaluru – 562 157.

Copy to:

1. The HOD, Dept. of Bio-Technology, Sir MVIT, Bengaluru.
2. Accounts Officer, Sri KET, Bengaluru


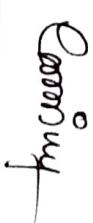



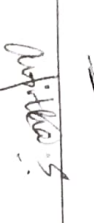
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Department of Biotechnology
Sir MVIT - 5621571.





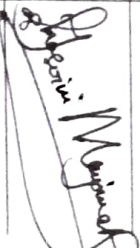


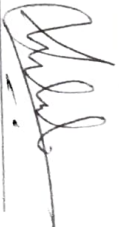


Intensive Workshop on Downstream Processing of Phytopharmaceuticals -
Research & Industrial Applications





Duration - 10 Saturdays (25th August to 3rd November, 2018)
(A collaborative effort of Himalaya Drug Company and Sir MVIT)

Registration (25.08.2018)

Sl. No.	Name	Institute/College	Mobile No.	Email ID	Signature
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4	KEERTHANA S	//	81481 93189	keertanasivakumar33@gmail.com	
5	BRUNDAHA .R	NEW HORIZON COLLEGE OF ENGINEERING	9066389405	brundahaqa@gmail.com	
6	ARITHA SRINIVAS	' '	96 209 708 78	arithasrinivasa7@gmail.com	

Sl. No.	Name	Institute/College	Mobile No.	Email ID	Signature
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8	ANJANA MENON	New horizon college of engineering	9886858414	anjana menon 38@gmail.com	
9	Akshaya . R	New horizon college of engineering	9886088456	rakshaya t@gmail.com	
10	Hamashree .MR	New horizon college of Engineering	9480069228	hamashreemr@gmail.com	
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12	Shubhanshu Yadav	SNVIT	7259924561	shubhu yadav@gmail.com	
13	Anuj Shetty	SNVIT	9880749670	anujshetty18@gmail.com	
14	Keeshini Sreedeksh	S.MVIT	9481632458	Keeshini.maitame@gmail.com	
15	Sirisha . B .T.	SNVIT	9741125778	Sirishab t@gmail.com	

Sl. No.	Name	Institute/College	Mobile No.	Email ID	Signature
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25	SUPRATA .S	Sr M VIT	9482837635	supratapratakash94@gmail.com	

Name	Institute/College	Mobile No.	Email ID	Signature
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27 Sonali S Sagar	Sir MVIT	8951372488	sonalibangalore@gmail.com	
28 Rishanka Sharma	Sir MVIT	9764617761	Rishankeshaarma249@gmail.com	
29 Sonali S. Mark	Sir MVIT	9022539120	Sonali1997@gmail.com	
30				
31				
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Third Integrative Workshop on Downstream Processing of Phytopharmaceuticals-

Research & Industrial Applications

(25th August to 3rd November, 2018 – 10 Saturdays)

Jointly organized by

The Himalaya Drug Company, Bangalore

&

Department of Biotechnology

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



Certificate of Participation

This is to certify that

Mr./Ms..... has participated in
of.....
the **Integrative Workshop on "DOWNSTREAM PROCESSING OF
PHYTOPHARMACEUTICALS - RESEARCH & INDUSTRIAL APPLICATIONS"** and
secured Grade.

Dr. Manjunath V R

Principal
Sir MVIT

Dr. H.G. Nagendra
Prof. & Head
Department of Biotechnology

Dr. U. V. Babu
Head-Phytochemistry-R&D
The Himalaya Drug Company