

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)
Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

2000 PA 1990 P

### Quality assurance initiatives of the institution

# Activities conducted under Collaborative quality initiatives with other institutions

#### Index

SI. No.	Particulars	Page No.
1.	Summary on	
	2017-18	
2.	Activities conducted under Collaborative quality initiatives with other institutions	3-5
	2018-19	
3.	Activities conducted under Collaborative quality initiatives with other institutions	6-8
	2019-20	
4.	Activities conducted under Collaborative quality initiatives with other institutions	9-74
	2020-21	
5.	Activities conducted under Collaborative quality initiatives with other institutions	75-191

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 088



(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.J.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

#### SUMMARY

The IQAC makes an earnest effort to institutionalize quality assurance strategies and processes. It organizes quality related programmes/ activities under Collaborative quality initiatives with other institutions for promoting and improving quality culture per year.

The Oxford College of Engineering
Bommanahali, Hosur Road



(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f) Bornmanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

### Activities conducted under Collaborative quality initiatives with other institutions

2017-18

SI. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the parti- cipant	Duration	Nature of the activity	Name of the department
1	Soft Skill Training	Seventh Sense Talent Solutions, #4, 1st floor 23rd A, 10th Main Rd, 2nd Phase, J. P. Nagar, Bengaluru, Karnataka 560078	5th Sem Students of Dept. of MCA	6 Days	Soft skill Training	MCA

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

#### THE OXFORD COLLEGE OF ENGINEERING

#### DEPARTMENT OF MCA

#### SoftSkill Training Report conducted from 18th to 23rd september 2017

Conducted on :From 18<sup>th</sup> to 23<sup>rd</sup> september (6 days)

Conducted by: Seventh Sense Talent Solutions, Bangalore

Conducted at: 6th floor, new building room no. N617

Attended by:5th semester MCA students





The session was taken by the followwing trainers on mentioned topics:

S no	Date	Trainer	Topic
1	18/9/17-FN	Raghu	Subject, verb, agreement
2	18/9/17-AN	Nagesh	Resume writing, Email Etiquettes
3	19/9/17-FN	Raghu Nandana	Reading comprehension, closet test
4	19/9/17-AN	Partha Sarathi	Coding-decoding, odd man out

5	20/9/17-FN	Partha Sarathi	Probability and partnership	
6	20/9/17-AN	Ahshata	Tenses, idioms and phrases	
7	21/9/17-FN	Jayanth N	Permutation and combination	
8	21/9/17-AN	Megha	Calendar	
9	22/9/17-FN	Manisha	Business Communication	
10	22/9/17-AN	Jyotsana	Blood Relationship	
11	23/9/17-FN	Ahana	Creative thinking	
12	23/9/17-AN	Sneha	Public speaking	

The Session was useful to develop personality of students as it covered sessions on different topics related to the context and it also helped them to know their hidden talents during the activities conducted by the trainers. Student Raja Paul was identified by the trainers as most participative students in that class.



(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)
Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

## Activities conducted under Collaborative quality initiatives with other institutions

2018-19

SI. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration	Nature of the activity	Name of the department
1	Seventh Sense Talent Solutions, #4, 1st floor 23rd A, 10th Main Rd, 2nd Phase, J. P. Nagar, Bengaluru, Karnataka 560078		5th Sem Students of Dept. of MCA	6 Days	Soft skill Training	MCA
2	Soft Skill Training	Seventh Sense Talent Solutions, #4, 1st floor 23rd A, 10th Main Rd, 2nd Phase, J. P. Nagar, Bengaluru, Karnataka 560078	4th Sem Students of Dept. of MCA	3 Days	Soft skill Training	MCA

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068

## THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF MCA

#### SoftSkill Training Report conducted from 14th to 16th March 2019

Conducted on :From 14th to 16th March 2019 (3 days)
Conducted by: Seventh Sense Talent Solutions, Bangalore
Conducted at: 6th floor, new building room no. N617

Attended by:4th semester MCA students





Sofskill sessions

The session was taken by the followwing trainers on mentioned topics:

S no	Date	Trainer	Topic	
1	14/03/19-FN	Basil Baby	LSRW Productive and Receptive	
2	14/03/19-AN	Ankit	Negotiation and Team building	
3	15/03/19-FN	Naveen Gowda	Assertive Communication, Speech Organization	
4	15/03/19-AN	Bhargavi P	Presentation skills	
5	16/03/19-FN	Krishna Bai	Creativity and Innovation	
6	16/03/19-AN	Bhargavi	Riddles, Mutual Understanding	

The Session was useful to develop personality of students as it covered sessions on different topics related to the context and it also helped them to know their hidden talents during the activities conducted by the trainers.

#### THE OXFORD COLLEGE OF ENGINEERING

#### DEPARTMENT OF MCA

#### SoftSkill Training Report conducted from 03rd to 11th October 2018

Conducted on :From 03rd to 11th October 2018 (6 days)
Conducted by: Seventh Sense Talent Solutions, Bangalore
Conducted at: 6th floor, new building room no. N617

Attended by:5th semester MCA students





Session attended by students

Student Raja Paul receiving award

The session was taken by the followwing trainers on mentioned topics:

S no	Date	Trainer	Topic
1	03/10/18-FN	Raghu	Subject, verb, agreement
2	03/10/18-AN	Nagesh	Resume writing, Email Etiquettes
3	04/10/18-FN	Raghu Nandana	Reading comprehension, closet test
4	04/10/18-AN	Partha Sarathi	Coding-decoding, odd man out
5	05/10/18-FN	Partha Sarathi	Probability and partnership
6	05/10/18-AN	Ahshata	Tenses, idioms and phrases
7	09/10/18-FN	Jayanth N	Permutation and combination
8	09/10/18-AN	Megha	Calendar
9	10/10/18-FN	Manisha	Business Communication
10	10/10/18-AN	Jyotsana	Blood Relationship
11	11/10/18-FN	Ahana	Creative thinking
12	11/10/18-AN	Sneha	Public speaking

The Session was useful to develop personality of students as it covered sessions on different topics related to the context and it also helped them to know their hidden talents during the activities conducted by the trainers. Student Raja Paul was identified by the trainers as most participative students in that class.



(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)
Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

## Activities conducted under Collaborative quality initiatives with other institutions

7	<b>n</b> 4	~	-	^
,	Ω1	ч	- /	

CI	2019-20					
SI. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the parti- cipant	Duration	Nature of the activity	Name of the department
1	Internship	IEEE photonics	Final year students Dept. of CSE	1 year	Internship	CSE
2	Webinar	IEEE CS student chapter	CSE all year student	1 Day	Webinar on Agile Methodologies	CSE
3	Webinar	IEEE CS student chapter	CSE all year student	1 Day	Webinar on Introduction of GIT	CSE
4	Webinar	IEEE CS student chapter	CSE all year student	1 Day	Webinar on Robotic Process Automation	CSE
5	Webinar	IEEE CS student chapter	CSE all year student	1 Day	Webinar on Cloud Service Providers	CSE
6	Webinar	IEEE CS student chapter	CSE all year student	1 Day	Webinar on Role of Data Analytics in IOT and IIOT	CSE

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru 560 068





### **AGILE METHODOLOGIES**

#### Rajesh Pasupuleti

**Program Delivery Manager,** 

Accenture Pvt. Ltd.

18th June, 2020



## **Table of Contents**

#### Agile Methodologies

Cover Page	(page 1)
Table of Contents	(page 2)
Webinar Poster	(page 3)
About the Webinar	(page 4)
List of Attendees (IEEE Members)	(page 5)
List of Attendees (non-IEEE Members)	(page 7)
Photos from the Webinar	(page 10



#### **Webinar Poster**



#### About the Webinar

The Webinar on "Agile Methodologies" was hosted by Mr. Rajesh Pasupuleti on June 18th, 2020, to provide a clear perception about the various Agile Methodologies and the extent of improved efficiency they offer.

Rajesh Pasupuleti is currently working as a Program Delivery Manager at Accenture Pvt Ltd. He has over 15+ years of experience in IT Program Delivery Management and IT Infrastructure Operations Management. He is a certified Program Management Professional (PMP), Certified Scrum Master and SAFe Agilist. He is currently managing 8 Scrum teams.

The Webinar was hosted on the Google Meet platform. It was attended by 63 participants. 21 among them were IEEE members and the remaining 42 were non-IEEE members.

His presentation emphasized the unique advantages provided by Agile approach in the dynamic business environment. He focused on how the Agile Methods are incremental development methods, inculcated with continuous iterations, to meet the changing customer requirements. He also discussed the various agile methodologies such a scrum and scrum artefacts. He gave an insight into the Kanban and its aspects. He explained about the extreme programming, which was developed by pushing iterative development to the 'extreme levels'.

The doubts and questions posed by the participants were clarified. They were encouraged to explore more about the agile aspects, to gain knowledge about the subject and master it, as it is of great need in the present world - with the ever-changing requirements of the customer.

#### Agenda of the webinar:

- Introduction about the Agile Methodologies.
- Comparison between the Waterfall model and Agile Approach.
- Key values and Principles of Agile.
- Various Agile Methodologies such as scrum, Kanban .
- Key features in extreme programming and how these relate to the general principles of Agile methods.



### **List of Participants (IEEE Members)**

SI. No.	Name	Email ID	Organization
1	Gurudatta K N	gurudatta.kn@aaron-gsd.com	Aaron Geospatial Designs LLP
2	Sreehari B	sreeharib234@gmail.com	Government Engineering College Barton Hill
3	Chaithra N	chaitran119@gmail.com	The National Institute of Engineering, Mysuru
4	Pooja Ekbote	pekbote08@gmail.com	The National Institute of Engineering, Mysuru
5	Ashmitha Dale Pais	ashdale30@gmail.com	The Oxford College of Engineering
6	Dr R CH A Naidu	chanr789@gmail.com	The Oxford College of Engineering
7	Prakruthi Rao	iamprakruthirao@gmail.com	The Oxford College of Engineering
8	Navnit Kumar	infinity4175@gmail.com	The Oxford College of Engineering
9	Mohith P Reddy	mohithreddy222@gmail.com	The Oxford College of Engineering
10	Spoorthi Rao	nmspoorthirao@gmail.com	The Oxford College o Engineering
11	Prasanna Ganapathi S	prasanna.sblr@gmail.com	The Oxford College of Engineering
12	Rahul Avabrath	rahulavabrath@gmail.com	The Oxford College of Engineering
13	Ravi Kumawat	ravi900kumawat@gmail.com	The Oxford College of Engineering
14	Sahana R K	rksahana2000@gmail.com	The Oxford College o Engineering
15	Roshini P	roshu34@gmail.com	The Oxford College of Engineering



16	Santhosh C P	santhoshcp@ieee.org	The Oxford College of Engineering
17	Dr E Saravana Kumar	saraninfo@gmail.com	The Oxford College of Engineering
18	Shrilakshmi H Nayak	shri.hnayak@gmail.com	The Oxford College of Engineering
19	Sougandhika B K	sougandhikabk@gmail.com	The Oxford College of Engineering
20	Shobha T	t.shobha2020@gmail.com	The Oxford College of Engineering
21	Seema Patil	theseema@gmail.com	The Oxford College of Engineering



### List of Participants (non-IEEE Members)

SI. No.	Name	Email ID	Organization
1	Prof. Dhananjay Kumar	dhananjay1050@gmail.com	East Point College of Engineering & Technology
2	Soujanya Pastay	soujanyakpastay@gmail.com	Sri Taralabalu Jagadguru Institute of Technology College
3	Hemanth	hemanthindu1234@gmail.com	Surana College
4	Krut N Gandhi	jlkrutgandhi1913@gmail.com	Surana College
5	Pooja B	pooja.b.1601@gmail.com	Surana College
6	Ramya K	ramyaramsy@gmail.com	The National Institute of Engineering, Mysuru
7	Anjali Anand	anjali.anand2@gmail.com	The Oxford College of Engineering
8	Ansari Ali Shoaib Nageena	ansarialishoaib@yahoo.in	The Oxford College of Engineering
9	Ayman Ahmed Irshad	aymankarnataka1999@gmail.com	The Oxford College of Engineering
10	E Bharath Reddy	bharathreddye0103@gmail.com	The Oxford College of Engineering
11	Bhavya K	bhavyakreddy527@gmail.com	The Oxford College of Engineering
12	Dharamvir	dhiruniit@gmail.com	The Oxford College of Engineering
13	J Jesy Janet Kumari	ebijesy@gmail.com	The Oxford College of Engineering
14	Sowmya HK	hk.sowmyakiran@gmail.com	The Oxford College of Engineering
15	Kajal S	kajalkajunishad22@gmail.com	The Oxford College of Engineering

	A CONTRACTOR OF THE PARTY OF TH	STREET, STREET	AND THE PROPERTY OF
16	Kalaiselvi S	kalaiselvinkl@gmail.com	The Oxford College of Engineering
17	K N Nikhith	kothanikhith@gmail.com	The Oxford College of Engineering
18	Krishnaveni A	krishnaveni.525@gmail.com	The Oxford College of Engineering
19	Latha R	latha.shreeram@gmail.com	The Oxford College of Engineering
20	Mahesh M S	maheshms1110@gmail.com	The Oxford College of Engineering
21	Mayank Rawat	mayank.rawat19998@gmail.com	The Oxford College of Engineering
22	Meghana Venkatesh Shet	meghanashet15@gmail.com	The Oxford College of Engineering
23	Nidhi Suresh Badnal	nidhisuresh99@gmail.com	The Oxford College of Engineering
24	Pavan Kumar V	pavangowda3113@gmail.com	The Oxford College of Engineering
25	Rahul G N	rahulgn14@gmail.com	The Oxford College of Engineering
26	Ram Surat Kumar	ramsuratr.kumar@gmail.com	The Oxford College of Engineering
27	Ruksar Khanum	ruksarrizwan786@gmail.com	The Oxford College of Engineering
28	Ruzaina Anjum	ruzaina.anjum31@gmail.com	The Oxford College of Engineering
29	S Merline Mary	Saga53yaraj1jms@gmail.com	The Oxford College of Engineering
30	Senthil Kumar R	senkr.raj@gmail.com	The Oxford College of Engineering
31	Monica S	smoni3008@gmail.com	The Oxford College of Engineering
32	Sneha Manjunath	sneham0208@gmail.com	The Oxford College of Engineering
33	Sushma T Shanbhogue	sushmatshan14@gmail.com	The Oxford College of

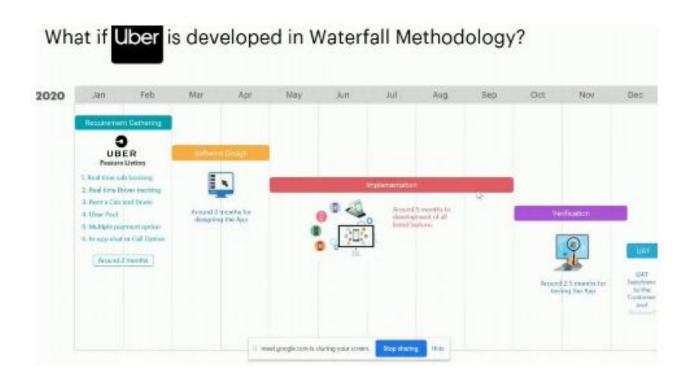


		Engineering
S Visalini	visalini.su@gmail.com	The Oxford College of Engineering
P KOKILA	kokilaparamanandam@gmail.com	The Oxford College of Engineering
viji Florance	*	The Oxford College of Engineering
Suhasini Manggalure	-	
Ruchitha Kodavali	-	
	P KOKILA  viji Florance  Suhasini Manggalure	P KOKILA kokilaparamanandam@gmail.com  viji Florance -  Suhasini Manggalure -



#### **Photos from the Webinar**

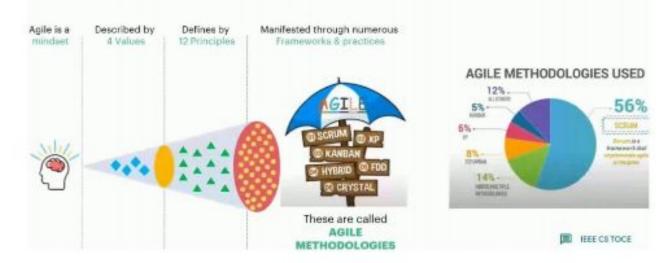






#### What are Agile Methodologies

AGILE METHODOLOGY is a practice that promotes continuous iteration of development and testing throughout the software development lifecycle of the project.

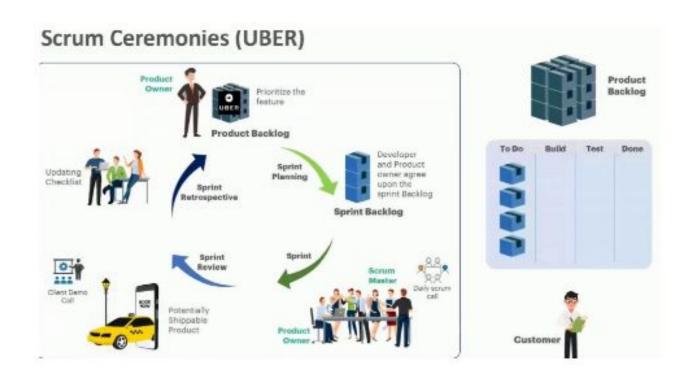




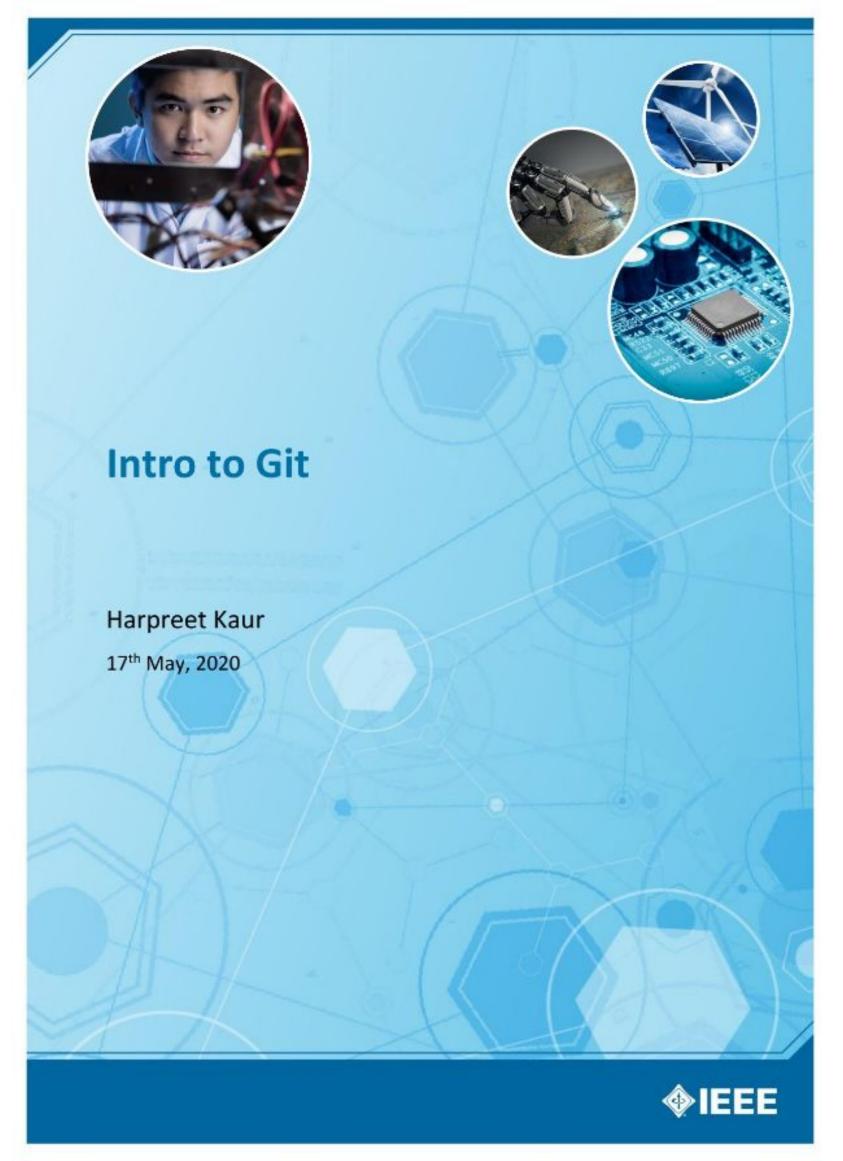












## **Table of Contents**

#### Intro to Git Webinar

Cover Page	(page 1)
Table of Contents	(page 2)
Webinar Poster	(page 3)
About the Webinar	(page 4)
List of Attendees (IEEE Members)	(page 5)
List of Attendees (non-IEEE Members)	(page 7)
Photos from the Webinar	(page 8)



#### Webinar Poster





#### About the Webinar

The Webinar on "Intro to Git" was hosted by Ms Harpreet Kaur on 17-05-2020, to provide an introduction to Git and serve as a quick-start guide.

Harpreet Kaur is a student member of the IEEE CS TOCE chapter. She is currently pursuing her Undergraduate Degree in Computer Science and Engineering from The Oxford College of Engineering, Bengaluru. She is well versed in Python and aspires to be an IT professional.

The Webinar was hosted on the Google Meet platform. It was attended by 38 registered participants. 22 among them were IEEE members and the remaining 16 were non-IEEE members.

The history of Git, Why Git is popular among software engineers and Git Characteristics were discussed in the webinar. The basic commands needed to start working with Git were explained.

Her presentation included examples of Git usage and how Git has changed the history of software version control. The session concluded with a Q&A session. The doubts and questions posed by the participants were clarified. They were encouraged to explore more on Git to gain a deeper understanding and to implement it.



## List of Participants (IEEE Members)

SI. No.	Name	Email ID	Organization
1	Anand Jagadeesh	anand.j@ieee.org	Dell EMC
2	Roshini P	roshu34@gmail.com	The Oxford College of Engineering
3	Prasanna Ganapathi S	prasanna.sblr@gmail.com	The Oxford College of Engineering
4	Santhosh C P	santhoshcp@ieee.org	The Oxford College of Engineering
5	Dr. CH A Naidu Reddi	chanr789@gmail.com	The Oxford College of Engineering
6	Sahana R K	rksahana2000@gmail.com	The Oxford College of Engineering
7	Mouna Shree K S	mounashree0399@gmail.com	The Oxford College of Engineering
8	Rahul Avabrath	rahulavabrath@gmail.com	The Oxford College of Engineering
9	Ajay Mahadev A R	ajaymahanrp@gmail.com	Government Engineering College, Barton Hill
10	Varsha R Ajith	varshaajith01@gmail.com	Government Engineering College, Barton Hill
11	Sumaiya Khanum S	safahmi7sumai@gmail.com	The Oxford College of Engineering
12	Spoorthi Rao	nmspoorthirao@gmail.com	The Oxford College of Engineering
13	Ashmitha Dale Pais	ashdale30@gmail.com	The Oxford College of Engineering
14	Seema Patil	theseema@gmail.com	The Oxford College of Engineering
15	Gurudatta K. N.	gurudatta.kn@aaron-gsd.com	Aaron GeoSpatial Designs
16	Pooja Ekbote	pekbote08@gmail.com	The National Institute of Engineering(NIE),Mysuru
17	Vedika	vedikakabracool@gmail.com	The Oxford College of Engineering
18	Nagaraja G.S.	nagarajags@rvce.edu.in	R.V. College of Engineering

19	Sougandhika B K	sougandhikabk@gmail.com	The Oxford College of Engineering
20	Meesala Sri Varsha	srivarsha.11@gmail.com	The Oxford College of Engineering
21	Mohith P Reddy	mohithreddy222@gmail.com	The Oxford College of Engineering
22	Shrilakshmi H Nayak	shri.hnayak@gmail.com	The Oxford College of Engineering



## List of Participants (non-IEEE Members)

Sl. No.	Name	Email ID	Organization
1	Dr E Saravana Kumar	saraninfo@gmail.com	The Oxford College of Engineering
2	Donappa Reddy KV	donappareddykv2000@gmail.com	The Oxford College of Engineering
3	Ruzaina Anjum	ruzaina.anjum31@gmail.com	The Oxford College of Engineering
4	Ruksar	ruksarrizwan786@gmail.com	The Oxford College of Engineering
5	V Ashwini	vjss.ashwini@gmail.com	The Oxford College of Engineering
6	Sneha M	sneham0208@gmail.com	The Oxford College of Engineering
7	Sivakama Sundari K	sindhusana7@gmail.com	The Oxford College of Engineering
8	Sushmitha N Jalli	sushmithajalli2010@gmail.com	The Oxford College of Engineering
9	Vidula R	rvidula45@gmail.com	The Oxford College of Engineering
10	Thrupthi P	thrupthip.010306@gmail.com	The Oxford College of Engineering
11	Nagaraja G.S.	nagarajags@rvce.edu.in	R.V. College of Engineering
12	Krut N Gandhi	jlkrutgandhi1913@gmail.com	Surana College
13	Ayman Ahmed Irshad	aymankarnataka1999@gmail.com	The Oxford College of Engineering
14	Evanka Dsouza	evdsa1204@gmail.com	St Joseph Engineering College, Vamanjoor
15	Arun Reddy S	arunreddy1187@gmail.com	The Oxford College of Engineering
16	Ali Ansari	ansarialishoaib@yahoo.in	The Oxford College of Engineering

#### Photos from the Webinar







#### Uses of GIT

- Easily recover files.
- Who introduced an issue when?
- Rollback to previously working state.

#### How was GIT created?

- Linus Torvarlds
- He started writing Linux kernel.
- 1991-2002: Linux dev. In patches, files.
- 2002:Realise a need of VCS.
- 2002-2005:Used Bit keeper VCS.
- 2005:Free of charge status was revoked.
- Started dev. Of GIT DVCS.







# ROBOTIC PROCESS AUTOMATION

Prof Ashwini N

**Assistant Professor** 

Dept. of CSE

**BMS Institute of Technology,** 

Bengaluru.

20th July 2020



## **Table of Contents**

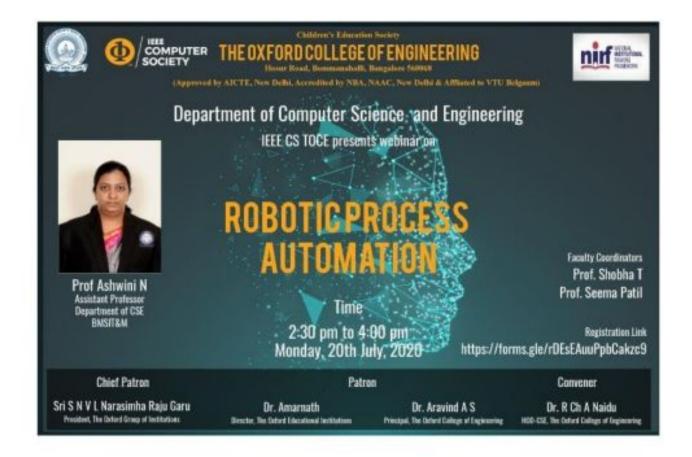
#### **Robotic Process Automation**

Cover Page	(page 1)
Table of contents	(page 2)
Webinar Poster	(page 3)
About the Webinar	(page 4)
List of Attendees (IEEE Members)	(page 5)
List of Attendees (Non-IEEE Members)	(page 6)
Photos from the Webinar	(page 19)





#### **Webinar Poster**





#### About the Webinar

The webinar on "Robotic Process Automation" was hosted by Prof. Ashwini N on 20th July 2020 from 2:30 PM to 4:00 PM. The session focused on the Automation aspects of Processing using Robotics.

Prof. Ashwini N is currently working as an Assistant Professor in the Department of Computer Science and Engineering, BMSIT&M, Bengaluru.

The webinar was hosted on the Microsoft Teams platform. It was attended by 183 participants. 6 among them were IEEE members and the remaining 177 were non-IEEE members.

The presentation began with the Introduction of Automation. The various types of Automation like Software Automation, Business Process Automation & Robotic Process Automation were explained. A brief introduction for RPA (Robotic Process Automation) was given and the presentation then focused on more in-depth aspects of RPA.

The tools and applications of RPA, along with practical examples were discussed. The links to download and install RPA were provided. The steps involved in installing RPA were demonstrated. The session included a practical demo of 'Creating a bolt'. Videos of case studies of RPA were shown. As students were a large part of the attendees, a video that showed how students can generate data using RPA was played. The presentation was concluded with the benefits of RPA. The session ended with a Q&A section. Questions and queries raised by the attendees were answered.



### **List of Participants (IEEE Members)**

Name	Email ID	Organization
Abhishek Awasthi	nimiabhishekawasthi@gmail.co m	M S Ramaiah University Of Applied Sciences
Ms. Seema Patil	theseema@gmail.com	The Oxford College of Engineering
Shobha T	t.shobha2020@gmail.com	The Oxford College of Engineering
Shrilakshmi Harishchandra Nayak	shri.hnayak@gmail.com	The Oxford College of Engineering
Somagutta Sai Bhargavi	somaguttasaibhargavi@gmail.c om	The Oxford College of Engineering
Yashas S R	yashas.sannalike@gmail.com	M S Ramaiah University Of Applied Sciences
	Abhishek Awasthi  Ms. Seema Patil  Shobha T  Shrilakshmi Harishchandra Nayak Somagutta Sai Bhargavi	Abhishek Awasthi nimiabhishekawasthi@gmail.co m  Ms. Seema Patil theseema@gmail.com  Shobha T t.shobha2020@gmail.com  Shrilakshmi shri.hnayak@gmail.com  Harishchandra Nayak  Somagutta Sai somaguttasaibhargavi@gmail.c Bhargavi om



### List of Participants (non-IEEE Members)

SI. No.	Name	Email ID	Organization
1	A.Rafega Beham	rafeeka.rifa@gmail.com	New Horizon College of Engineering
2	Abdul Imran Rasheed	abdullaimranrasheed@gmail.com	M S Ramaiah University Of Applied Sciences
3	Abhilasha Sharma	abhilashasharma531@gmail.com	The Oxford College of Engineering
4	Abhiman HR	abhi656.aa@gmail.com	Alva's Institute of Engineering and Technology
5	Adarsh Hiremath	1by18is004@bmsit.in	BMSIT
6	Ajay.R	ajayachar10258@gmail.com	MSRUAS
7	Ajeet	raavanhaihum1@gmail.com	Nagarjuna College of Engineering & Technology
8	Ajit Danti	ajitdanti@yahoo.com	Christ university
9	Akshay G S	akshaygshadakshari@gmail.com	Nagarjuna College of Engineering & Technology
10	Akshay M J	akshaymj@jnnce.ac.in	JNNCE, Shivamogga
11	Akshitha Pai P	akshitha173@gmail.com	The Oxford College of Engineering
12	Amarjit Yanglem	amarjityanglem563@gmail.com	Alva's Institute of Engineering and Technology
13	Ambresh Biradar	ambrsh@gmail.com	M S Ramaiah University O Applied Sciences

14	Anand M Raikar	anandraikar1@gmail.com	VTU CPGS
15	Ansari Ali Shoaib Nageena	ansarialishoaib@yahoo.in	The Oxford College of Engineering
16	Arpitha, V	aruarpitha8871@gmail.com	The Oxford College of Engineering
17	Arvitha M V S	arvithamvs1998@gmail.com	M S Ramaiah University O Applied Sciences
18	Ashwini M	ashwinireddy.cse.vit@gmail.com	Vemana Institute of Technology
19	Ayman Ahmed Irshad	aymankarnataka1999@gmail.com	The Oxford College of Engineering
20	B. Devi Vighneshwari	devitocecaed@gmail.com	The Oxford College of Engineering
21	B.H. Rashmi	rashmibhstar2001@gmail.com	Alva's Institute of Engineering and Technology
22	B.Swathi	baswarajuswathi@gmail.com	New Horizon College of Engineering
23	Bhavatarini N	bhavatarinin@sapthagiri.edu.in	Sapthagiri College Of Engineering
24	Bhuvanendra K J	bhuvanendrajk1617@gmail.com	M S Ramaiah University O Applied Sciences
25	Bindhu.R	neetureddy05@gmail.com	Alva's Institute of Engineering and Technology
26	Binesh P	bineshforyou@yahoo.com	Monisha College
27	Binesh Padikkal Nair	bineshforever@gmail.com	Sheshadripuram College

28	Buthuru Jagadeep	jagadeepyh@gmail.com	BMS Institute of
	Reddy		Technology and
			Management
29	Chaitanya	shravannaik296@gmail.com	Nagarjuna College of
	Timmappa Naik		Engineering & Technology
30	Chethan Gs	chethan.gs@jnnce.ac.in	JNNCE, Shivamogga
31	Chinmai	chinmaichinnu99@gmail.com	NIE
32	Chinmaya Bhat K K	chinmayabhatkk@gmail.com	Alva's Institute of Engineering and Technology
33	Dhananjay B I	dhananjayiliger98@gmail.com	Government Engineering College, Haveri
34	Dhivya Karunya S	dhivyaskarunya@gmail.com	S.E.A. College of Engineering & Technology
35	Divya K V	divya.k.vasudevan@gmail.com	New Horizon College of Engineering
36	Dona Bhowal	bhowaldona0@gmail.com	BMS Institute of Technology and Management
37	Dr E Saravana Kumar	saraninfo@gmail.com	The Oxford College of Engineering
38	Dr Natesh M	natesh.m@vvce.ac.in	Vidyavardhaka College of engineering
39	Dr Sachin Agrawal	sachin.s.agrawal@gmail.com	College of Engineering and Technology, Akola
40	Dr Yashoda B S	yashoda_bs@yahoo.com	The Oxford College of Engineering
41	Dr. Anita Patrot	patrotanita@gmail.com	Maharani Lakshmi Ammanni College, Bangalore

42	Dr. Kantharaj D.G.	dg_kantharaj@yahoo.com	Nagarjuna College of Engineering & Technology
43	Dr. P. Mangayarkarasi	mangaivelu18@gmail.com	New Horizon College of Engineering
44	Dr. Suresh R	sureshchiru09@gmail.com	M S Ramaiah University O Applied Sciences
45	Dr.B S Dayananda	bannurdaya@gmail.com	M S Ramaiah University O Applied Sciences
46	Faiqa Farooq	_	BMS Institute of Technology and Management
47	G Prashanth Rao	prash4141@gmail.com	Ekalavya Academy of Sports and Science Education
48	Gousia Thahniyath	gousia4peace@gmail.com	Dayananda Sagar University
49	Gowri Prasad	reports.gowri@gmail.com	New Horizon College of Engineering
50	Gururaj Shetti	gsak.raj@gmail.com	KLE Society
51	Hemanth Kumar N P	hemanthnp@aiet.org.in	Alva's Institute of Engineering and Technology
52	Ibrahim	ibrahimaskary1234@gmail.com	The Oxford College of Engineering
53	J Brundha Elci	brindhaelci@gmail.com	Vemana Institute of Technology
54	Jallipalli Neelima Dakshayini	neelima9538@gmail.com	Vemana Institute of Technology

55	Jasline Sharon	jaslinetauro10@gmail.com	Alva's Institute of
	Tauro		Engineering and
	- 10000 FEED - 100		Technology
56	Jayakumar.N	njktry78@gmail.com	The Oxford College of
			Engineering
57	Jesy Janet Kumari J	ebijesy@gmail.com	The Oxford College of
			Engineering
58	Johnson Crastha B	john14bela@gmail.com	Alva's Institute of
			Engineering and
			Technology
59	K M Bilvika	bilvikadeepak@gmail.com	Information science and
			engineering
60	K Thrishul	acharyathrishul@gmail.com	Alva's Institute of
	100.4001, 207.000.24.10	1000 ACC 100 A	Engineering and
			Technology
61	Karthik R	karthikrishi443@gmail.com	Nagarjuna College of
			Engineering & Technology
62	Karthikeyan J	kart18201.cs@rmkec.ac.in	R.M.K. Engineering College
63	Karthiyayini J	jkarthi781@gmail.com	New Horizon College of
			Engineering
64	Kavya P S	alvandarkavya123@gmail.com	Nagarjuna College of
			Engineering & Technology
65	Keerthana. V.	keerthuvtemkar@gmail.com	Nagarjuna College of
	Temkar		Engineering & Technology
66	Ken K Thejesh	kenkthejesh@gmail.com	BMSIT
67	Kiran N Patil	kirannpatil18@gmail.com	Nagarjuna College of
		With Secretary	Engineering & Technology
68	Krishnaveni A	krishnaveni.525@gmail.com	The Oxford College of
	1	1921	Engineering



69	Krishnitha	krishnithashetty@gmail.com	Alva's Institute of
			Engineering and Technology
70	Latha R	latha.shreeram@gmail.com	The Oxford College of
			Engineering
71	Likhitha J	likhithaj8@gmail.com	The Oxford College of Engineering
72	Lohith N	sailohith64@gmail.com	The Oxford College of Engineering
73	M.Nikita	nikitarao270798@gmail.com	The Oxford College of Engineering
74	Madan N	madangowda6419@gmail.com	Nagarjuna College of Engineering & Technology
75	Manjesh D M	manjeshdm2000@gmail.com	Nagarjuna College of Engineering & Technology
76	Manohar R	manohar_is@sirmvit.edu	SIR MVIT
77	Manoj A	manojmanua7@gmail.com	Nagarjuna College of Engineering & Technology
78	Medha B	medhab14126@gmail.com	The Oxford College of Engineering
79	Megha D. Hegde	meghahegde@aiet.org.in	Alva's Institute of Engineering and Technology
80	Mohammed Tawheed	tawheedmohammed30@gmail.co m	BMS Institute of Technology and Management
81	Monica S	smoni3008@gmail.com	The Oxford College of Engineering
82	Mounica B	premkumarmounica@gmail.com	New Horizon College of Engineering



83	Mounika S Ganta	mounikaganta.29@gmail.com	Nagarjuna College of Engineering & Technology
84	Mr. Anand Kumar Y. C.	ycanand1989@gmail.com	NMIT Polytechnic
85	Ms. Srilekha N	srilekhan123@gmail.com	The Oxford College of Engineering
86	N Muniyappa	muniyappa.n1966@gmail.com	The Oxford College of Engineering
87	N.Kiruthika	kirule191402.cs@rmkec.ac.in	R.M.K. Engineering College
88	Nagashree D.S	1by19is102@bmsit.in	BMS Institute of Technology and Management
89	Naipunya Vinod Naik	naipunyavnaik@gmail.com	Alva's Institute of Engineering and Technology
90	Nalla Aakanksha Shriniwas	akankshanalla03@gmail.com	N. K. Orchid College of Engineering and Technology, Solapur
91	Namitha B	namithabekal@gmail.com	Vemana Institute of Technology
92	Nandini R G	nandini2000.com@gmail.com	Nagarjuna College of Engineering & Technology
93	Naveen H S	naveen.hs@vemanait.edu.in	Vemana Institute of Technology
94	Navyashree N	navyashreenavyashree60@gmail.	Nagarjuna College of Engineering & Technology
95	Navyashree N	Vnswamy856@gmail.com	Nagarjuna College of Engineering & Technology
96	Nisha C Rani	nishashamin@gmail.com	The Oxford College of Engineering



97	P N Swapna	swapnabhanureddy@gmail.com	Vemana Institute of Technology
98	Pallavi S	pallup684@gmail.com	Nagarjuna College of Engineering & Technology
99	Paulette Gudapati	paulettegudapati@gmail.com	M S Ramaiah University O
100	Pavithra G N	pavithragn9998@gmail.com	Vemana Institute of Technology
101	Pooja B Gudagur	poojabg15@gmail.com	Government Engineering College, Haveri
102	Pooja Umesh	pooju.madhu@gmail.com	The Oxford College of Engineering
103	Poornima N	poornima11nagaraj@gmail.com	Nagarjuna College of Engineering & Technology
104	Pragathi S	pragathi.vv@gmail.com	Jnana Jyothi Degree College
105	Pragya Kashyap	pragyakashyap693@gmail.com	M S Ramaiah University O Applied Sciences
106	Prakash R V	prakashspark@gmail.com	S.E.A. College of Engineering & Technology
107	Pramod Gouda	1by18is086@bmsit.in	BMSIT
108	Pranami Chowdhury	pooja.catty97@gmail.com	The Oxford College of Engineering
109	Pranavi	pranavipra128@gmail.com	Nagarjuna College of Engineering & Technology
110	Prathvi S P	prathvisp123@gmail.com	Yenepoya Institute Of Technology
111	Priyanka Shet	priyanka.18star@gmail.com	Alva's Institute of Engineering and Technology



112	Prof. Chirag. H. Jariwala	chiragjariwala2006@yahoo.com	Shri I V Patel College Of Commerce, Nadiad, Gujarat
113	Pushpitha.P	pushpitha2001@gmail.com	Alva's Institute of Engineering and Technology
114	R Chandramma	rchandramma.vkit@gmail.com	Vivekananda Institute Of Technology
115	R Roshifa Thabasum	roshtabu7@gmail.com	The Oxford College of Engineering
116	Rachana B S	rachanabhoopalam@gmail.com	Alva's Institute of Engineering and Technology
117	Rachitha H S	rachithahs2000@gmail.com	Nagarjuna College of Engineering & Technology
118	Raghavendra R J	raghavendra.r.j@jnnce.ac.in	JNNCE, Shivamogga
119	Rahul Avabrath	rahulavabrath@gmail.com	The Oxford College of Engineering
120	Rahul G N	rahulgn14@gmail.com	The Oxford College of Engineering
121	Rakshith Danti	rakshithdanti@gmail.com	BMSIT
122	Rakshitha G M	rakshithaaradhya13@gmail.com	Nagarjuna College of Engineering & Technology
123	Ramya Holla R	ramyaholla3862@gmail.com	Nagarjuna College of Engineering & Technology
124	Ramya R	ramyakethsiyal@gmail.com	The Oxford College of Engineering
125	Ranjini S	ranjiniragu12@gmail.com	Vemana Institute of Technology



126	Rashmi K S	rashmiks235@gmail.com	Vemana Institute of Technology
127	Rashmi Somshekhar	rashmiraj.rathod@gmail.com	Karnataka State Akkamhadevi Womens University, Vijayapura
128	Resna S R	resnasr@gmail.com	The Oxford College of Engineering
129	Revanasiddapa Bandi	sidduaitcse@gmail.com	Dr. Ambedkar Institute of Technology, Bengaluru
130	Rithu Ks	rithu165@gmail.com	MSRUAS
131	Rufus Jason P	rufusjason04@gmail.com	The Oxford College of Engineering
132	Ruma Panda	rumapanda@gmail.com	Vemana Institute of Technology
133	S Raviteja	sravitejarao@gmail.com	Vemana Institute of Technology
134	S Vijaya Kumar	viji.sunkal@gmail.com	M S Ramaiah University Of Applied Sciences
135	S.Visalini	visalini.su1@gmail.com	The Oxford College of Engineering
136	Sahana. C	sahanac186@gmail.com	Vemana Institute of Technology
137	Sakthi R	sakt18236.cs@rmkec.ac.in	sakt18236.cs@rmkec.ac.in
138	Sandhya Mj	sand18237.cs@rmkec.ac.in	R.M.K. Engineering College
139	Sanjana R	gsanjana357@gmail.com	Vemana Institute of Technology
140	Satish Hiremath	satishaerospace@yahoo.com	Aerolance Pvt Ltd
141	Satyanarayana Raju Mudunuri	satyam@ncetmail.com	Nagarjuna College of Engineering & Technology



142	Savya Tr	savyatr1@gmail.com	Nagarjuna College of Engineering & Technolog
143	Sayed Aftab Ahamed	afis037@jnnce.ac.in	JNNCE, Shivamogga
144	Senthil Kumar R	senkr.raj@gmail.com	The Oxford College of Engineering
145	Shambulingappa H S	shambu.hs13@gmail.com	SJMIT, Chitradurga
146	Shankar R	shankar@bmsit.in	BMS Institute of Technology and Management
147	Sharmila G	sharmiravi75@gmail.com	Sheshadripuram College
148	Sheetal A Naik	sheenaik26134@gmail.com	The Oxford College of Engineering
149	Shilpa	shilpaygowda@gmail.com	Alva's Institute of Engineering and Technology
150	Shilpa Kaman	shilpask16@gmail.com	KSAWU, Vijyapura
151	Shruthi CS	shruthicsshru@gmail.com	Alva's Institute of Engineering and Technology
152	Sindhu Wodeyar	sindhu.wodeyar@gmail.com	Aerodesign Solutions Pvt Ltd
153	Sneha Priya	snehapriya583@gmail.com	The Oxford College of Engineering
154	Soundarya N	soundaryan98@gmail.com	The Oxford College of Engineering
155	Sowmya Hk	hk.sowmyakiran@gmail.com	The Oxford College of Engineering



156	Spoorti Daroji	spoortidaroji21@gmail.com	Alva's Institute of
			Engineering and
			Technology
157	Sujatha P V	sujathapv777@gmail.com	Sheshadripuram College
158	Sukruth	Sukruthj2004@gmail.com	Cambridge
159	Sushma GS	sweetysushmags@gmail.com	Nagarjuna College of
			Engineering & Technology
160	Sushmitha M S	susmithams@sapthagiri.edu.in	Sapthagiri College of
		50 44 5954	Engineering
161	T Ramesh	timmarasu@gmail.com	Presidency University
162	Tanzeera Banu A	tanzeerabanu1998@gmail.com	The Oxford College of
			Engineering
163	Tejashwini.S	tejashwini1607@gmail.com	Nagarjuna College of
			Engineering & Technology
164	Tejaswini P	teju.tejaswinishetty@gmail.com	Nagarjuna College of
			Engineering & Technology
165	Tejus S Navadagi	teju2815@gmail.com	M S Ramaiah University O
			Applied Sciences
166	Thrisha B V	thrishabv@gmail.com	Nagarjuna College of
			Engineering & Technology
167	Upendra.R	upendraharshaupe1234@gmail.c	PMC Tech
		om	
168	Ushasree R	ushasree19832000@gmail.com	The Oxford College of
			Engineering
169	V. Yuvasree	yuvasreev148@gmail.com	Grt institute of
			engineering and
			technology, Tiruttani
170	Vandana CP	vandana.hareesh@gmail.com	New Horizon College of
			Engineering



171	Vanyashree	vanyashreemardi97@gmail.com	Alva's Institute of Engineering and Technology
172	Veerendra K	veerendrasagar.k48@gmail.com	BMS Institute of Technology and Management
173	Venkatesh	venkateshbhat2007@gmail.com	Alva's Institute of Engineering and Technology
174	Vidya	vidya@aiet.org.in	Alva's Institute of Engineering and Technology
175	Vidyashree K	vidyasvks@gmail.com	Nagarjuna College of Engineering & Technology
176	Vivek Sharma S	vivek.shrisharma@gmail.com	Alva's Institute of Engineering and Technology
177	Yash R Parekh	yashrparekh81@gmail.com	Yenepoya Institute Of Technology



#### **Photos from the Webinar**

#### Introduction to RPA - Automation Anywhere







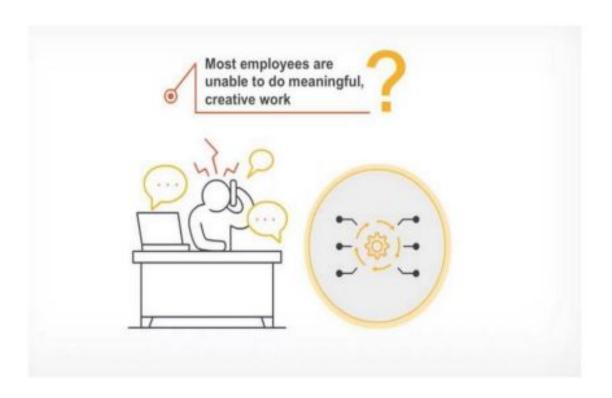
Assistant Professor

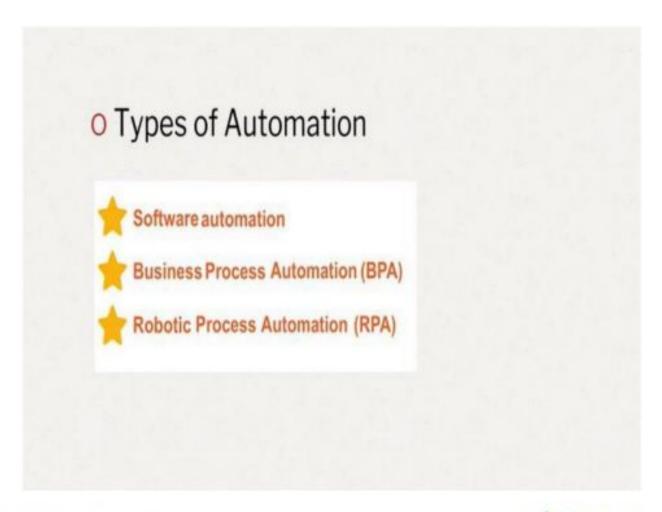
## Agenda



- Automation
- > Types of Automation
- ➤ Robotic Process Automation(RPA)
- ➤ Installation Steps
- > Hello Bot Creation-Example
- Case studies
- Benefits of RPA
- ➤ Conclusion









## Robotic Process Automation (RPA)



"Specialized software robots that automate volume, repetitive, rule-based tasks in an auditable and reliable way"

- Robotics: These are the entities which mimic the actions of humans.
- Process: It is a step by step procedure which leads to an effective activity-for example, the process of building a house.
- Automation: It is defined as a process which is performed by robots without human involvement



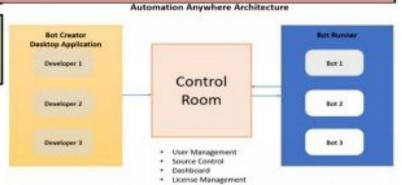
#### **Automation Anywhere Architecture**



Automation Anywhere is a distributed architecture. In this architecture, the control room will be the centralized manager.

This architecture mainly consists of Bot Creators and Bot Runners connected to control room, as shown in the figure. Automation Anywhere architecture has three primary components. They are:

- Control rooms
- Bot runner
- **Bot Creator**



IFFF





# ROLE OF CLOUD SERVICE PROVIDERS

Mr.Naveen Mukundaraj

Asst. Manager, Network Architect
Sify Technologies

11th July 2020



# **Table of Contents**

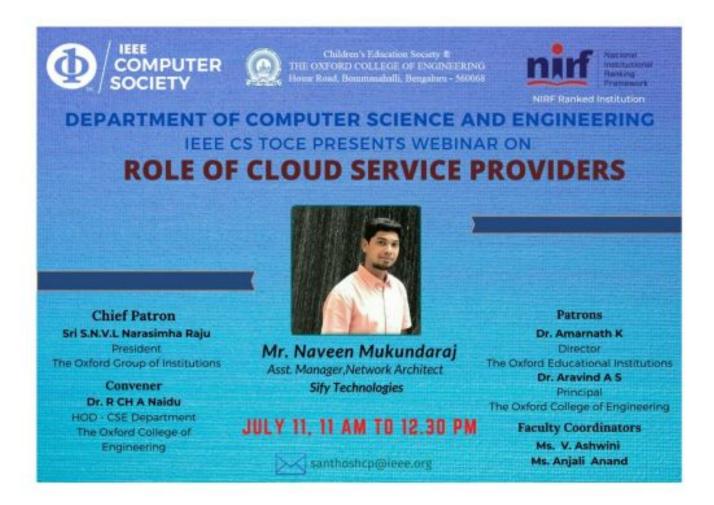
#### Role of Cloud Service Providers

Cover Page	(page 1)
Table of contents	(page 2)
Webinar Poster	(page 3
About the Webinar	(page 4
List of Attendees	(page 5
Photos from the Webinar	(page 9





#### **Webinar Poster**





#### **About the Webinar**

The Webinar on "Role of Cloud Service Providers" was hosted by Mr. Naveen Mukundaraj on 11th July 2020, to provide a deeper understanding about the cloud services, the advantages it offers and the major role played by it to handle the increased demand to store data.

Mr. Naveen Mukundaraj is currently working as a Network Architect at Sify Technologies, Chennai.

The Webinar was hosted on the Google Meet platform. It was attended by 66 participants.

The presentation focused on how the data is stored, accessed and managed in the cloud. He explained about the cloud computing technology, its benefits and the types. He provided a detailed description of its working. He also discussed the various Cloud Service Providers and the crucial role they play in managing our data, without the scarcity of storage. With the increasing data every day, and the challenges to store it is easily curbed by the cloud technology. The participants were encouraged to explore more Cloud concepts, to get knowledge about the subject and understand it.

#### Agenda of the webinar:

- Introduction to Cloud.
- Description of Cloud Computing.
- Role of Cloud Service Providers.



# **List of Participants**

SI. NO.	Name	Email ID
1	J JESY JANET KUMARI	ebijesy@gmail.com
2	USHASREE R	ushasree19832000@gmail.com
3	Prasanna Ganapathi S	prasanna.sblr@gmail.com
4	Ibrahim	ibrahimaskary1234@gmail.com
5	Manoj L	manoj.lakshminarayan@gmail.c om
6	Anjali Yadav	anjali151099@gmail.com
7	Mudrakolla sanjana	mudrakolasanjana@gmail.com
8	Pooja N	pooja1998nap@gmail.com
9	Ambika K. V	ambiambika35646@gmail.com
10	Sumaiya Khanum S	safahmi7sumai@gmail.com
11	MEGHANA VENKATESH SHET	meghanashet15@gmail.com
12	JAYAKUMAR .N	njktry78@gmail.com
13	E BHARATH REDDY	bharathreddye0103@gmail.com
14	PRANAMI CHOWDHURY	pooja.catty97@gmail.com
15	S. MERLINE MARY	sagayaraj1jms@gmail.com

16	Seema Patil	theseema@gmail.com	
17	Krishnaveni A	krishnaveni.525@gmail.com	
18	Sneha Manjunath	sneham0208@gmail.com	
19	Banu Priya U	bhanupriya3446@gmail.com	
20	KALAISELVI. S	kalaiselvinkl@gmail.com	
21	LATHA R	latha.shreeram@gmail.com	
22	SAHIL DEEPAK VERMA	shahilverma68@gmail.com	
23	Santhosh C P	santhoshcp@ieee.org	
24	Sindhu M	sindhumy9916@gmail.com	
25	GOWTHAMI C L	gowthamichintu22@gmail.com	
26	SOWMYA HK	hk.sowmyakiran@gmail.com	
27	Pavithra H L	pavithrahl701@gmail.com	
28	Shobha T	t.shobha2020@gmail.com	
29	Ansari Ali Shoaib Nageena	ansarialishoaib@yahoo.in	
30	RUZAINA ANJUM	ruzaina.anjum31@gmail.com	
31	Monica S	smoni3008@gmail.com	
32	Sandhya R K	sandhyark1998@gmail.com	
33	S.Visalini	visalini.su1@gmail.com	
34	Kajal Kumari	kajalmishra3099@gmail.com	
35	Ruksar Khanum	ruksarrizwan786@gmail.com	
36	R Roshifa thabasum	roshtabu7@gmail.com	



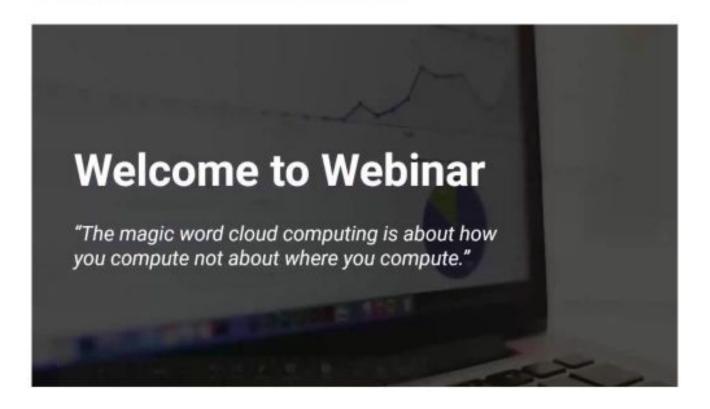
37	AYMAN AHMED IRSHAD	aymankarnataka1999@gmail.com
38	Likhitha j	likhithaj8@gmail.com
39	Roshini P	roshu34@gmail.com
40	NISHA C RANI	nishashamin@gmail.com
41	Prakruthi Rao	iamprakruthirao@gmail.com
42	Dr E Saravana Kumar	saraninfo@gmail.com
43	Sonika Sharma D	sonikasharmad94@gmail.com
44	Monica S	smoni3008@gmail.com
45	G. Florance	Vijiflorance59@gmail.com
46	E BHARATH REDDY	bharathreddye0103@gmail.com
47	Sahana R K	rksahana2000@gmail.com
48	Divya M V	divyachinni9035@gmail.com
49	Alamdar Ali	alamdarali27@gmail.com
50	Somagutta sai bhargavi	somaguttasaibhargavi@gmail.com
51	Mayank Rawat	mayank.rawat19998@gmail.com
52	BHAVYA K	bhavyakreddy527@gmail.com
53	Supreeth P	psupreeth123@gmail.com
54	Vinay S	vinay.s008@gmail.com
55	Margaret v	margaretmaggie996@gmail.com
56	Senthil Kumar R	senkr.raj@gmail.com
57	P KOKILA	kokilaparamanandam@gmail.com
58	Jayashree k	nisha.k1719@gmail.com
59	Dharam Vir	dhiruniit@gmail.com
60	NAVEEN H S	naveen.hs@vemanait.edu.in



61	Swajani G k	swajanigk@gmail.com
62	Rahul G N	rahulgn14@gmail.com
63	Kennedy Francis	uccskf@gmail.com
64	Arpitha. V	aruarpitha8871@gmail.com
65	Asma Sultana	asmasasjdb@gmail.com
66	Dharam Vir	dhiruniit@gmail.com



#### **Photos from the Webinar**







#### **Cloud Benefits**



## **Cloud Services**

Cloud Software as a Service (SaaS)

· Use provider's applications over a network

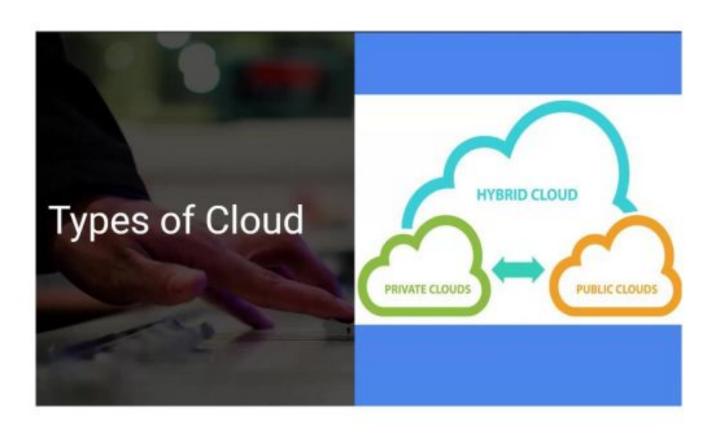
Cloud Platform as a Service (PaaS)

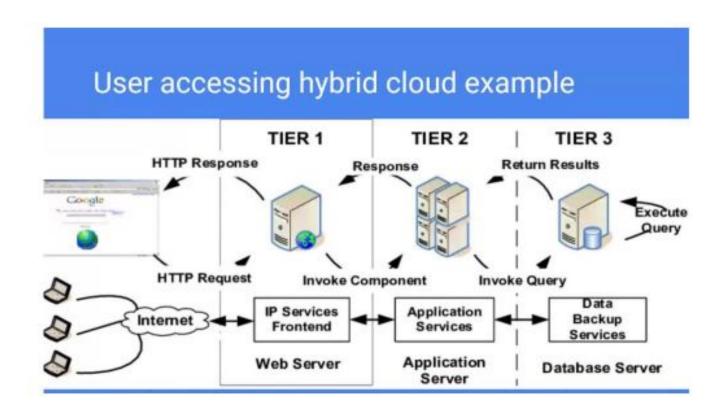
· Deploy customer-created applications to a cloud

Cloud Infrastructure as a Service (laaS)

 Rent processing, storage, network capacity, and other fundamental computing resources













#### **ROLE OF DATA ANALYTICS IN IOT**

#### **AND IIoT**

Dr. Selvaraj Kesavan Advisor Solution Architect, DXC Technology, Bangalore

16th June, 2020

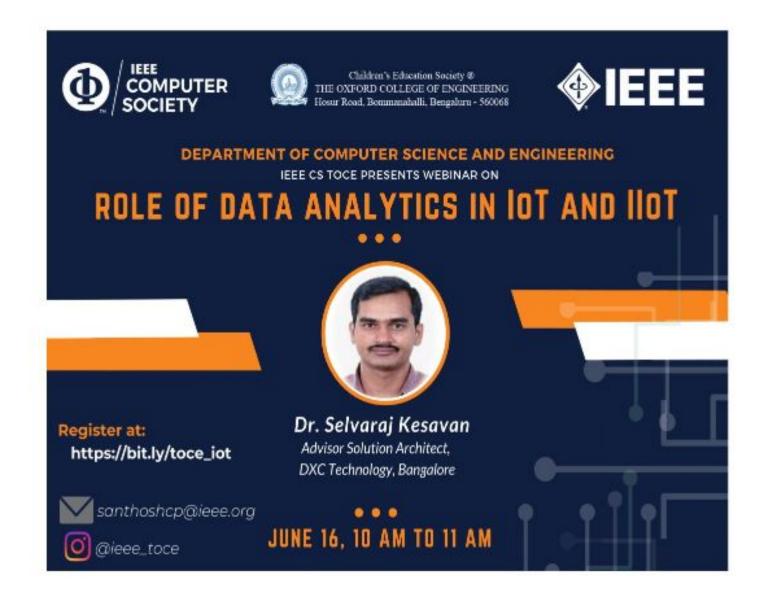
16<sup>th</sup> June,2020

16th June, 2020

# **Table of Contents**

Cover Page	(page 1)
Table of contents	(page 2)
Webinar Poster	(page 3)
About the Webinar	(page 4)
List of Attendees (IEEE Members)	(page 5)
List of Attendees (Non-IEEE Members)	(page 7)
Photos from the Webinar	(page 10)

#### **Webinar Poster**





#### About the Webinar

The Webinar on "Role of Data Analytics in IoT and IIoT" was hosted by Dr. Selvaraj Kesavan on 16-06-2020, to provide a clear insight about the crucial role played by the data analytics in Industrial IoT.

Dr. Selvaraj Kesavan is currently working as Advisor Solution Architect in DXC Technology, Bangalore. He is a Senior IEEE Member. He has 16+ years of experience in architect, design and development of Cloud, IoT, Embedded, Multimedia, Machine Learning and Mobile Application Solutions. He holds a Ph.D. with many research publications in international journals and conferences. He is a certified AWS Solution Architect.

The Webinar was hosted on the Google Meet platform. It was attended by 58 registered participants. 23 among them were IEEE members and the remaining 35 were non-IEEE members.

The presentation emphasized the importance of Data, and how the data collected from various sensors, should be processed efficiently using the data mining tools. The data is then used to make strategic business decisions. He also explained the aspects of IoT-key technology. Various analysis methods like clustering, DBSCAN to extract meaningful data from huge data sets were discussed. He gave an idea about the Big data tools, data visualization and IoT asset management and Predictive Maintenance.

The participants were encouraged to explore more on Data Analysis ,to gain a deeper understanding and to implement it in the real world, which is supposed to hold a great demand in the next few years.

#### Agenda of the webinar:

- Introduction about the IoT and IIoT.
- How the data collection, storage, processing and visualization takes place?
- Brief explanation about the Analytics.
- Cloud infrastructure and platform services for Analytics.



# **List of Participants (IEEE Members)**

SI. NO.	Name	Email ID	Organization
1	Sriganesh Rao	sriganesh_rao@hotmail.com	Calligo Technologies Pvt Ltd
2	Santosh Subramaniam	subramaniam.santosh@gmail.com	Conduent
3	Shobha T	t.shobha2020@gmail.com	The Oxford College of Engineering
4	Seema Patil	theseema@gmail.com	The Oxford College of Engineering
5	Ashmitha Dale Pais	ashdale30@gmail.com	The Oxford College of Engineering
6	Dr E Saravana Kumar	saraninfo@gmail.com	The Oxford College of Engineering
7	Dr R Ch A Naidu	chanr789@gmail.com	The Oxford College of Engineering
8	Spoorthi Rao	nmspoorthirao@gmail.com	The Oxford College of Engineering
9	Santhosh C P	santhoshcp@ieee.org	The Oxford College of Engineering
10	Prasanna Ganapathi S	prasanna.sblr@gmail.com	The Oxford College of Engineering
11	Rahul Avabrath	rahulavabrath@gmail.com	The Oxford College of Engineering
12	Navnit Kumar	infinity4175@gmail.com	The Oxford College of Engineering

13	Roshini P	roshu34@gmail.com	The Oxford College of Engineering
14	Vedika Kabra	vedikakabracool@gmail.com	The Oxford College of Engineering
15	Sahana R K	rksahana2000@gmail.com	The Oxford College of Engineering
16	Sougandhika B K	sougandhikabk@gmail.com	The Oxford College of Engineering
17	Muskan M	muskandedicated16@gmail.com	The Oxford College of Engineering
18	Anil S	anil24cs@gmail.com	The Oxford College of Engineering
19	Harshitha B U	harshuhpgs123@gmail.com	The Oxford College of Engineering
20	Surabhi N	surabhi.n.311@gmail.com	The National Institute of Engineering
21	Ravi Kumawat	ravi900kumawat@gmail.com	The Oxford College of Engineering
22	Lakshmi Nayak B	nayaklakshmi99@gmail.com	Canara Engineering College
23	Pushpalatha S	pushpala29@gmail.com	Panimalar Institute of Technology



# List of Participants (non-IEEE Members)

SI. No.	Name	Email ID	Organization
1	Anjali Anand	anjali.anand2@gmail.com	The Oxford College of Engineering
2	Velmurugan	velbit66@gmail.com	Malla Reddy College of Engineering
3	Pooja B	pooja.b.1601@gmail.com	Surana College
4	Hemanth	hemanthindu1234@gmail.com	Surana College
5	Krut N Gandhi	jlkrutgandhi1913@gmail.com	Surana College
6	Latha R	latha.shreeram@gmail.com	Surana College
7	V Ashwini	vjss.ashwini@gmail.com	The Oxford College of Engineering
8	Senthil Kumar R	senkr.raj@gmail.com	The Oxford College of Engineering
9	J Jesy Janet Kumari	ebijesy@gmail.com	The Oxford College of Engineering
10	S.Visalini	visalini.su@gmail.com	The Oxford College of Engineering
11	Nidhi Sanganore	nidhisanganore@gmail.com	The Oxford College of Engineering
12	S Merline Mary	sagayaraj1jms@gmail.com	The Oxford College of Engineering

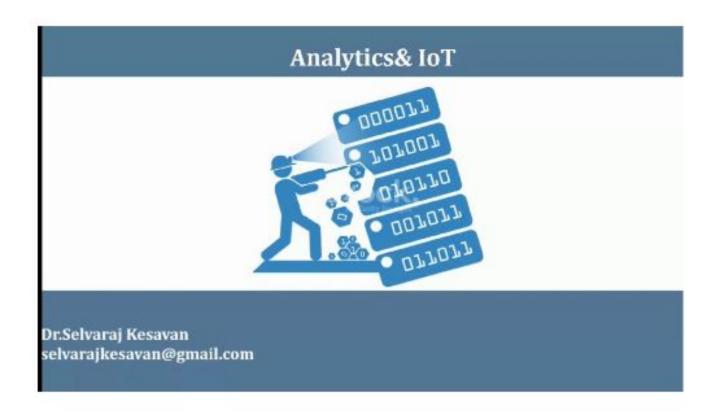


13	Ansari Ali Shoaib Nageena	ansarialishoaib@yahoo.in	The Oxford College of Engineering
14	Ruzaina Anjum	ruzaina.anjum31@gmail.com	The Oxford College of Engineering
15	Ram Surat Kumar	ramsuratr.kumar@gmail.com	The Oxford College of Engineering
16	Kalaiselvi S	kalaiselvinkl@gmail.com	The Oxford College of Engineering
17	Jayakumar N	njktry78@gmail.com	The Oxford College of Engineering
18	Jyothi B	jyothipreethi2000@gmail.com	The Oxford College of Engineering
19	Devi Vighneshwari	devivighneshwari@gmail.com	The Oxford College of Engineering
20	Geetha Jabez Athota	geethajabezathota@gmail.com	The Oxford College of Engineering
21	Resna SR	resnasr@gmail.com	The Oxford College of Engineering
22	Usha Sree	ushasree19832000@gmail.com	The Oxford College of Engineering
23	Sowmya HK	hk.sowmyakiran@gmail.com	The Oxford College of Engineering
24	Sushma T Shanbhogue	sushmatshan14@gmail.com	The Oxford College of Engineering
25	Krishnaveni A	krishnaveni.525@gmail.com	The Oxford College of Engineering
26	Sivakama Sundari K	sivakamasundarik7@gmail.com	The Oxford College of Engineering
27	Ruksar Khanum	ruksarrizwan786@gmail.com	The Oxford College of

			Engineering
28	Ayman Ahmed Irshad	aymankarnataka1999@gmail.com	The Oxford College of Engineering
29	Sadiya Sultana	sadiya05ahmed@gmail.com	The Oxford College of Engineering
30	Jayaraj N	jayarajn0@gmail.com	The Oxford College of Engineering
31	P Kokila	kokilaparamanandam@gmail.co m	The Oxford College of Engineering
32	S Vidhya	vidhyasiddhan@gmail.com	The Oxford College of Engineering
33	Sandya Rani V	vs.sandya@gmail.com	The Oxford College of Engineering
34	Subasree	subasree.sr@gmail.com	Valeo
35	Sumitha Jaiber	-	-



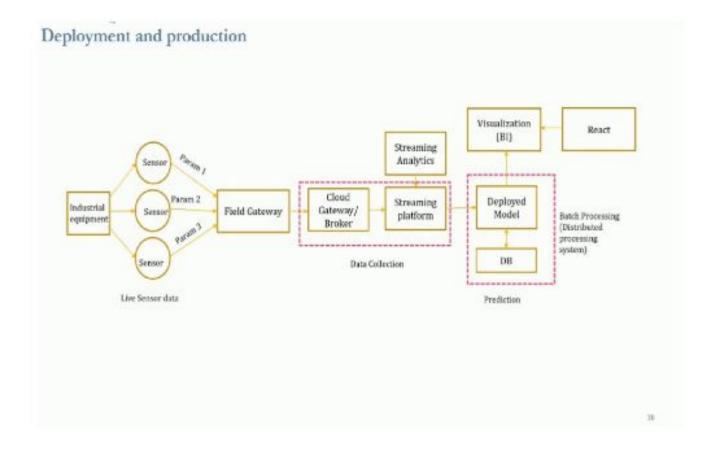
## **Photos from the Webinar**



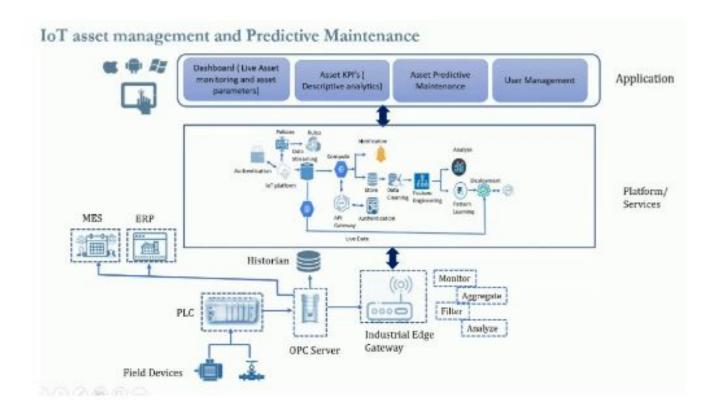


#### IOT- Sensors to Application Application Data Monitor Alert Visualization and Control Senor/Machine Parameters Sensors Device Security Provision & Analyze Rules Stone Sensor Onboard Edge Platform Data Analytics Agent Device Agent Data Ingestion Delivery Industrial Compute Hosting Management \_\_plants\_ Device Gateway Edge IoT & Cloud platform Devices/Sensors

- Edge Devices/Sensors source for the real time data.
- Device gateway collects data from multiple edge devices, filter aggregate and ingest the data to the cloud platform for further processing and analyzing
- IoT platform enable device onboarding, data ingestion, device to cloud and cloud to device communication
- Cloud platform receive data, store, process and generate insights
- Application helps to visualize the dashboard, monitor and control the devices.













(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.L.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

# Activities conducted under Collaborative quality initiatives with other institutions 2020-21

SI. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration	Nature of the activity	Name of the departmen t
1	Aptitude and Recruitment Essentials	FACE (Focus 4- D Career Education Pvt. Ltd.), No. 12, Lakshmi Nagar, Thottipalsyam Piruvu, Coimbatore, Tamilnadu 641014	Final year students of all branches	50 hours	Training	All Engineering Branches & MBA, MCA
2	Faculty Development Programme	AICTE	Faculties	2 WEEKS (15 to 26th February 2021)	Phase 1-AICTE sponsored FDP on Bio innovation Patenting and Entrepreneurship opportunities in Biotechnology for sustainable environment	ВТ
3	Faculty Development Programme	AICTE	Faculties	2 WEEKS( 8th to 20th March 2021)	Phase 2-AICTE sponsored FDP on Bio innovation Patenting and Entrepreneurship opportunities in Biotechnology for sustainable environment	ВТ
4	Short Term Training Programme	AICTE	Faculties	1 WEEK(23rd August to 28th August 2021)	Phase-1AICTE Sponsored One Week short Term training Programme (STTP) on "Start-up driven Bio innovation and	



# CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi. Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bornmanahalll, Hosur Road, Bangalore - 560 068. Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprinclpal@theoxford.edu Web: www.theoxfordengg.org

					IOT for Sustainable Agritech"	
5	Internship	Govt. Tool room and training centre, Rajajinagar Industrial Estate, 72nd Cross Rd, Bengaluru, Karnataka-560010	Final year students Dept. of MT	1 Year	Project Developments	MT
6	Internship	Karnataka German technical training institute (KGTTI) Bengaluru, Near Nagasandra Metro Station, Behind Kennametal, Manjunatha Nagara, Bagalagunte, Bengaluru-560073	Final year students Dept. of MT	1 Year	Project Developments	MT
7	Internship	VI Solutions-22, 2nd Floor AKAI Plaza, D Rajagopal Rd, Sanjay Nagar, Bengaluru-560094	Final year students Dept. of MT	1 Year	Project Developments	MT

PRINCIPAL The Oxford College of Engineering Bommarlahalli, Hosur Road Bengaluru-560 068







## CHILDREN'S EDUCATION SOCIETY (Regd.)

#### THE OXFORD EDUCATIONAL INSTITUTIONS

CA Site No.40, 1<sup>st</sup> Phase, J P Nagar, Bengaluru – 560078
Ph.: 080 26659532, 61754510/501/502/603/623/624
Email: adn@theoxford.edu, hodplacements@theoxford.edu, placements@theoxford.edu

## A Report On

Training 2020-2021(Aptitude and Recruitment Essentials) By FACE

#### Report on Training 2020-2021

#### **Table of Content**

#### **About Training**

- Who Trained
- Names of Trainers.
- Topics of training (Aptitude 2. Recruitment Essentials).
- Participant (Batch wise).

#### Schedule of Training.

- · No. of hours Scheduled
- Time Table Picture.
- Date & time of training
- Topics covered day wise.
- Attendance.

#### **During Training**

Screen shots

#### **Feedback Training**

#### Report on Training 2020-21

Department of Corporate Relations gives high priority to the importance of training and mentoring. Best and in-demand training is offered to the students at TOCE. Along with trainings, students are encouraged to enrol for Certification Programmes. Various placement preparation activities are carried out throughout the year. Every student of TOCE is given equal and ample opportunities for Internship and Final Placement. Campus placement is organized at college level throughout the year so that maximum number of students get placed. Training and Placement Cell also guides the students for higher studies. It is as a result of our unique training methodology, we are always been preferred from premier corporates to acquire fresh talent.

**FACE** is one of India's largest skill development companies, catering to students pursuing higher education in colleges/universities as well as entry-level recruits in organisations across industry sectors.

#### Names of the Trainer

- 1. Sarumathi
- 2. Rupesh
- Sudhanshu
- 4. Jeswin Jose
- Ragul
- 6. Visakhan
- 7. Sahu
- 8. Aashish
- 9. Roshin

## Topics of Training

- Number system
- Time and work
- Percentages, Simple interest and Compound interest
- Profit and loss, Partnerships and averages
- Permutation, Combination and Probability
- Time, Speed and Distance
- Ratio and Proportion
- Logarithms, Progressions, Geometry and Quadratic equations.
- Algebraic Expressions
- Surds, Indices and Simplification
- Set Theory
- Functions

- Cryptarithmetic
- Trigonometry
- Reading comprehension
- Sentence correction
- Sentence completion and Para-jumbles
- Vocabulary
- Articles, Prepositions and Interrogatives
- Attention to detail
- Voices and Speech
- Critical reasoning
- Group Discussion Orientation
- Personal Interview Orientation
- · Resume Building Orientation
- Body Language and Professionalism
- Interpersonal Skill

#### Participants (All the pre final year Students 2021 passing out students)

The training was conducted by Face in four batches and the batches were combining 3 departments in a batch

#### Batch 1

Master of Computer Application Information Science and Engineering Electronic and Electrical Engineering

#### Batch 2

Master of Business Administration Mechanical Engineering B.Architecture

#### Batch 3

Mechatronics Engineering Civil Engineering Automobile Engineering

#### Batch 4

Computer Science and engineering Biotechnology Engineering Electronics and communication Engineering

## **Schedule of Training**

The Training was planned from mid of sept-2020 and the classes started from 20<sup>th</sup> October 2020 to 23<sup>rd</sup> November 2020. 2 hours per day per batch.

## No of hours scheduled

Topic code	Topic	Duration
TI	Number system	2
T2	Time and work	2
T3	Percentages, Simple interest and Compound interest	2
T4	Profit and loss, Partnerships and averages	2
T5	Permutation, Combination and Probability	2
T6	Time, Speed and Distance	2 2 2
T7	Ratio and Proportion	
T8	Logarithms, Progressions, Geometry and Quadratic equations.	2
T9	Algebraic Expressions	1
T10	Surds, Indices and Simplification	2
T11	Set Theory	2
T12	Functions	1
T13	Cryptarithmetic	1
T14	Trigonometry	1
T15	Reading comprehension	2
T16	Sentence correction	2
T17	Sentence completion and Para-jumbles	
T18	Vocabulary	2 2
T19	Articles, Prepositions and Interrogatives	2
T20	Attention to detail	2
T21	Voices and Speech	2 2 2
T22	Critical reasoning	2
T23	Group Discussion - Orientation	2 2
T24	Personal Interview - Orientation	2
T25	Resume Building - Orientation	2 2
T26	Body Language and Professionalism	2 2
T27	Interpersonal Skill	2

## Time Table picture

Days/Time	9 am - 11 am	11.15 am - 1.15 pm
Monday	B1	В3
	B2	B4

Tuesday	B1 B2	B3 B4
Wednesday	B1 B2	B3 B4
Thursday	B1 B2	B3 B4
Friday	B1 B2	B3 B4
Saturday	B1 B2	B3 B4

# Date and Time of Training

Date	Batch	Topic Scheduled	Duration(hrs,
	B1	Time & Work	2
20.0.20	B2	Numbers	2
20-Oct-20	В3	Time & Work	2
	B4	Numbers	2
	B1	Numbers	2
21.020	В2	Time & Work	2
21-Oct-20	В3	Numbers	2
	B4	Time & Work	2
	B1	Percentages&Interests	2
22.0.20	В2	Algebraic Expressions & functions	2
22-Oct-20	В3	Percentages&Interests	2
	B4	Algebraic Expressions & functions	2
23-Oct-20	В1	Algebraic Expressions & functions	2

20-	B2	Percentages&Interests	2
	В3	Algebraic Expressions & functions	2
	B4	Percentages&Interests	2
	B1	Profit&Loss	2
	B2	Permutation, Combination & Probability	2
27-Oct-20	В3	Profit&Loss	2
	В4	Permutation, Combination & Probability	2
	B1	Permutation, Combination & Probability	2
20.0.20	B2	Profit&Loss	2
28-Oct-20	В3	Permutation, Combination & Probability	2
	B4	Profit&Loss	2
	Bl	Time,Speed & Distance	2
	B2	Ratio & Proportion	2
29-Oct-20	В3	Time,Speed & Distance	2
	B4	Ratio & Proportion	2
	В1	Ratio & Proportion	2
20.020	B2	Time,Speed & Distance	2
30-Oct-20	В3	Ratio & Proportion	2
	B4	Time,Speed & Distance	2
	B1	Logarithms	2
31-Oct-20	В2	Surds & Indices	2

	В3	Logarithms	2
	B4	Surds & Indices	2
	В1	Surds & Indices	2
02-Nov-20	В2	Logarithms	2
02-Nov-20	В3	Surds & Indices	2
	B4	Logarithms	2
	В1	Set Theory	2
03-Nov-20	В2	Cryparithmetic & Trignometry	2
03-Nov-20	В3	Set Theory	2
	B4	Cryparithmetic & Trignometry	2
	В1	Cryparithmetic & Trignometry	2
04 N 20	В2	Set Theory	2
04-Nov-20	В3	Cryparithmetic & Trignometry	2
	B4	Set Theory	2
	B1	Reading Comprehension	2
05.11 20	B2	Sentence correction	2
05-Nov-20	В3	Reading Comprehension	2
	B4	Sentence correction	2
	ВІ	Sentence correction	2
06-Nov-20	B2	Reading Comprehension	2
	В3	Sentence correction	2

	B4	Reading Comprehension	2
	B1	Sentence completion & Para Jumbles	2
07.11 20	B2	Vocabulary	2
07-Nov-20	В3	Sentence completion & Para Jumbles	2
	B4	Vocabulary	2
	В1	Vocabulary	2
12 Nov. 20	B2	Sentence completion & Para Jumbles	2
12-Nov-20	В3	Vocabulary	2
	B4	Sentence completion & Para Jumbles	2
	В1	Articles, Prepositions	2
13-Nov-20	B2	Attention to Detail	2
13-Nov-20	В3	Articles, Prepositions	2
	B4	Attention to Detail	2
	В1	Attention to Detail	2
14 Nov. 20	В2	Articles, Prepositions	2
14-Nov-20	В3	Attention to Detail	2
	B4	Articles, Prepositions	2
	B1	Voices & Speech	2
16-Nov-20	B2	Critical Reasoning	2
	В3	Voices & Speech	2

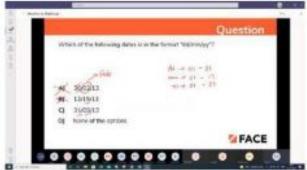
	B4	Critical Reasoning	2
	B1	Critical Reasoning	2
17 Nov. 20	B2	Voices & Speech	2
17-Nov-20	В3	Critical Reasoning	2
	В4	Voices & Speech	2
	В1	Group Discussion	2
18-Nov-20	B2	Personal Interview	2
10-1907-20	В3	Group Discussion	2
	В4	Personal Interview	2
	B1	Personal Interview	2
19-Nov-20	B2	Group Discussion	2
19-NOV-20	В3	Personal Interview	2
	B4	Group Discussion	2
	В1	Resume Writing	2
20-Nov-20	В2	Body Language	2
20-1107-20	В3	Resume Writing	2
	B4	Body Language	2
	B1	Body Language	2
21-Nov-20	B2	Resume Writing	2
	В3	Body Language	2

	B4	Resume Writing	2
	В1	Interpersonal Skills	2
22.31	B2	Interpersonal Skills	2
23-Nov-20	В3	Interpersonal Skills	2
	B4	Interpersonal Skills	2

Total Number of hours Completed 200

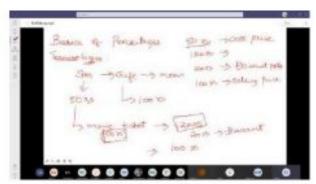
#### Attention to detail

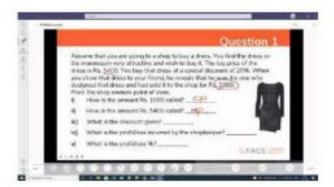




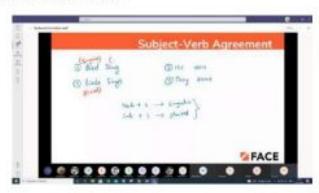
#### Profit and loss





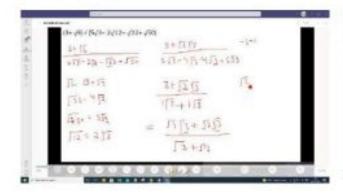


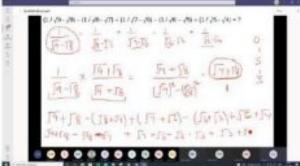
#### Sentence Correction



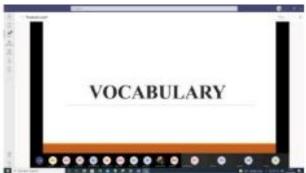


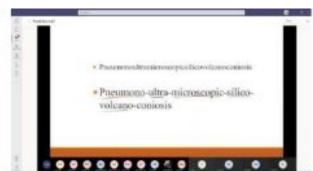
#### Surds and Indices





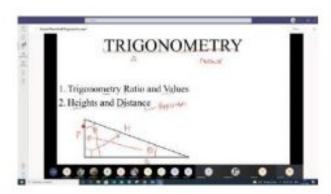
#### Vocabulary

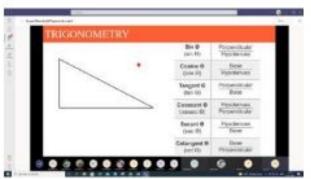


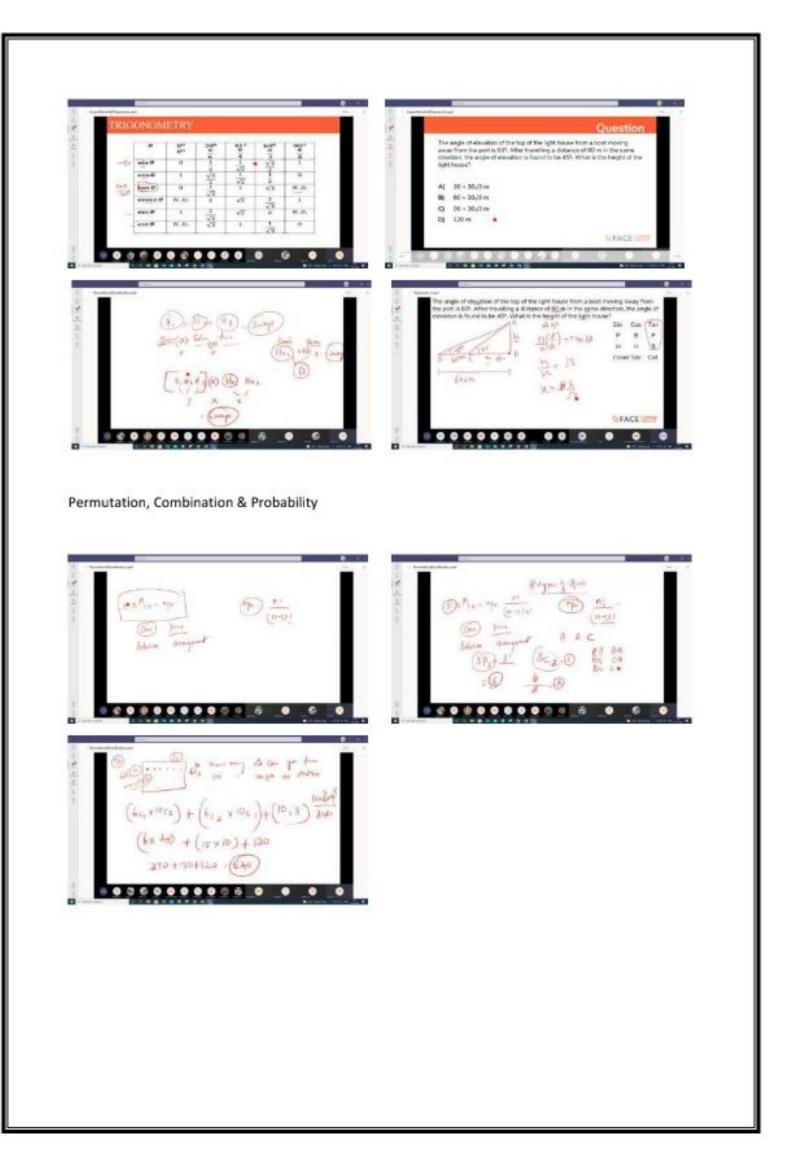




Cryparithmetic and Trigonometry



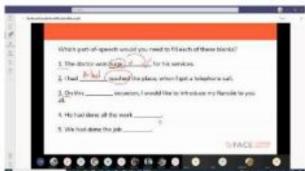




#### Sentence completion & Para Jumbles





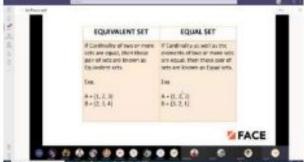


#### Set Theory



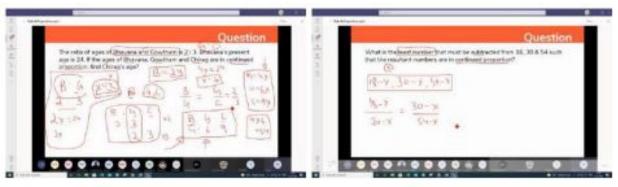


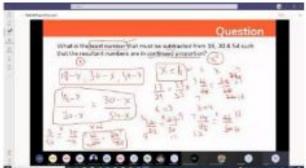


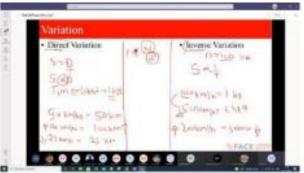


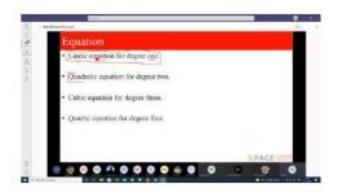


#### Ratio & Proportions









#### Time, Speed & Distance

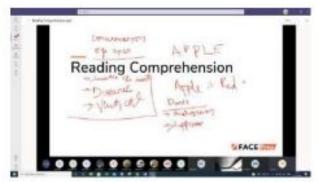




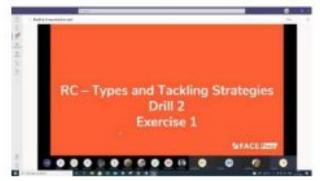


#### Reading Comprehension

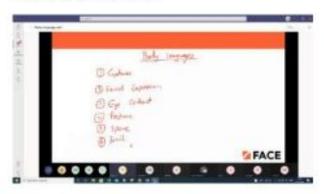


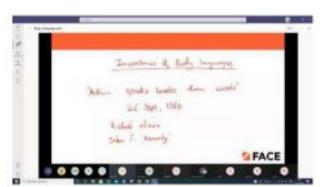


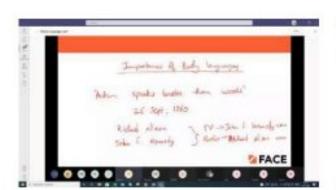


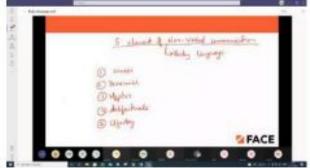


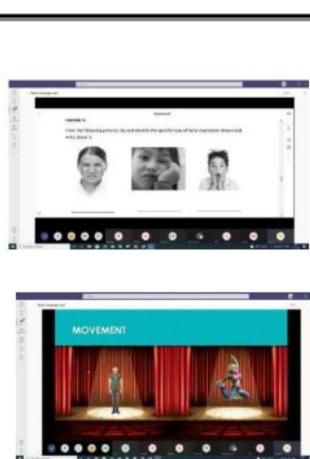
#### Recruitment essentials

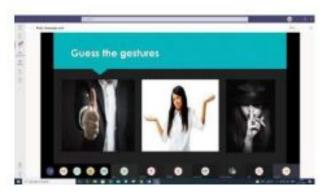






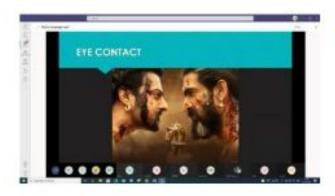


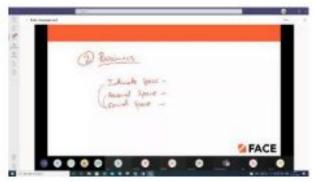


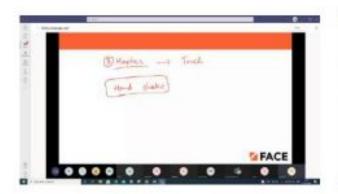


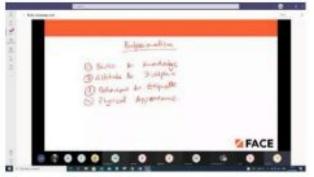






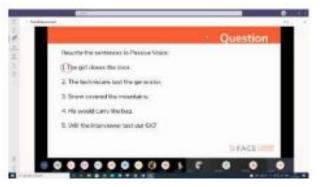


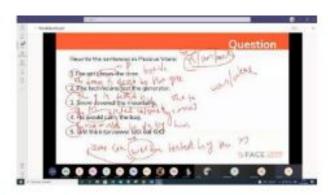




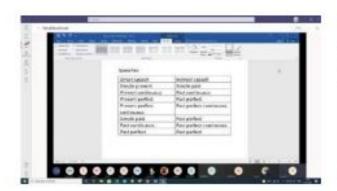
## Group Discussion NY II PERSONAL INTERVIEW - The princil state - commission - State and the state of all the state o Daniel - Sekwaner - mer de, par 1. Arabid - Dischlift id facility Charg dozen Lkjmom I in Knowledge in John y make ground - Conferent **FACE** FACE (3) Section Field (5) Section (5) Section (6) Section Tell me sending about towards Dane 15 mg when to \_ (E) Republy (3) Sed over the Seguidades 1 Later commender Aphreny to Consenter Actions FACE O higher which force between which he company's Active Voice and Passive (d-st) Voice (3) by Vinger FACE SPACE .... 00000 .

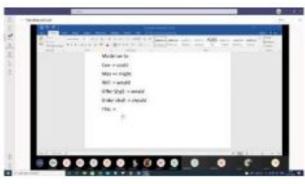


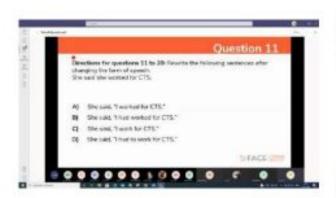


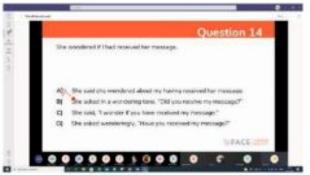








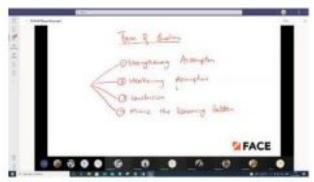




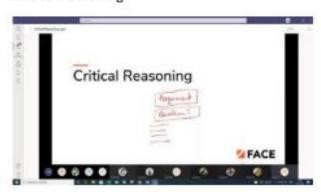


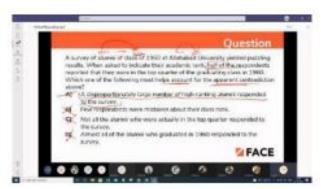


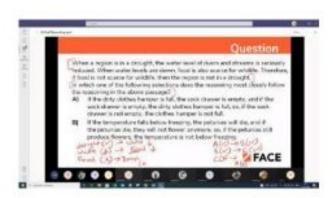


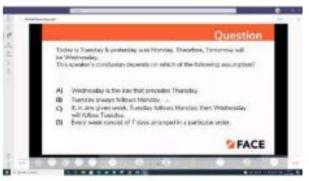


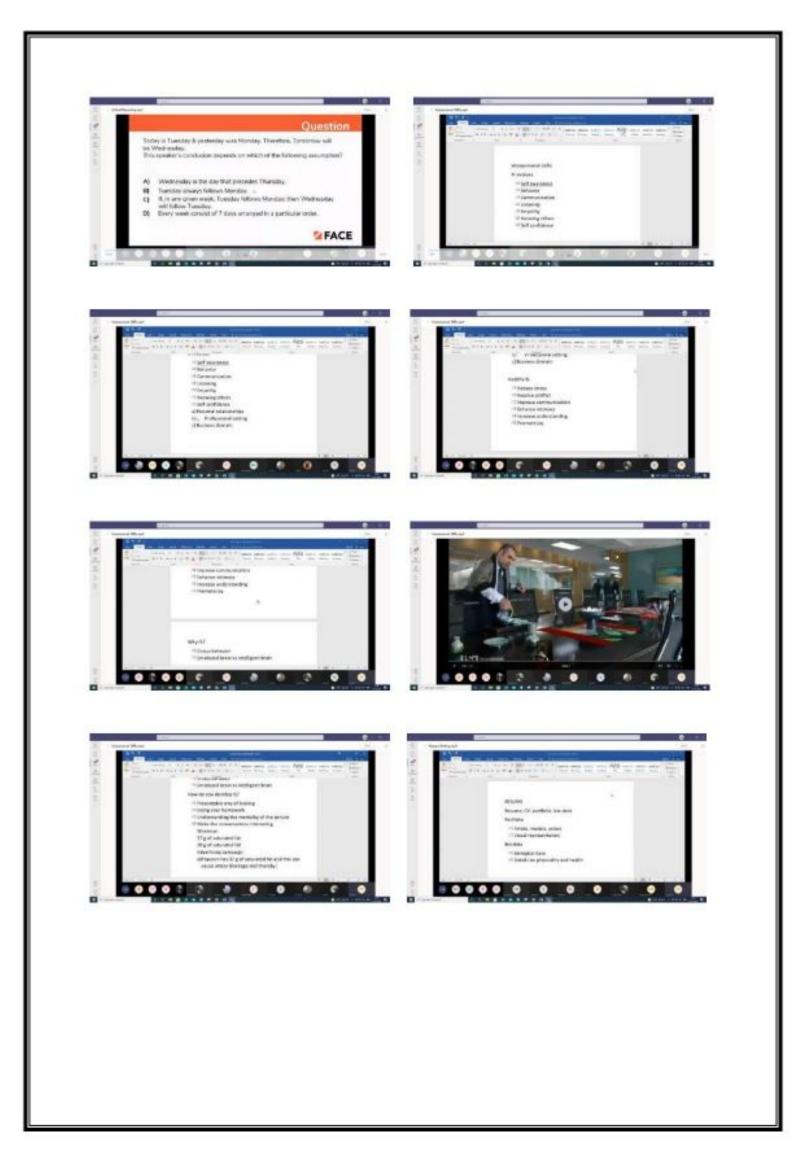
#### Critical Reasoning

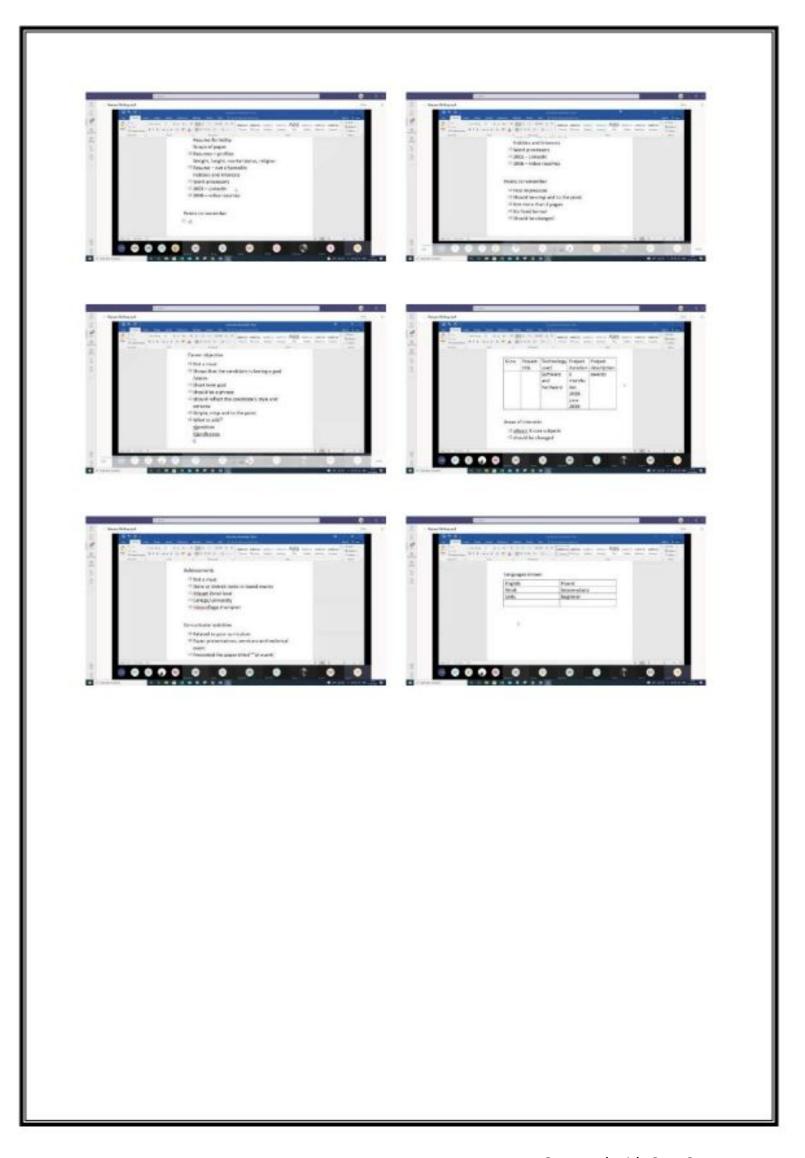














#### Children's Education Society ®

#### THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

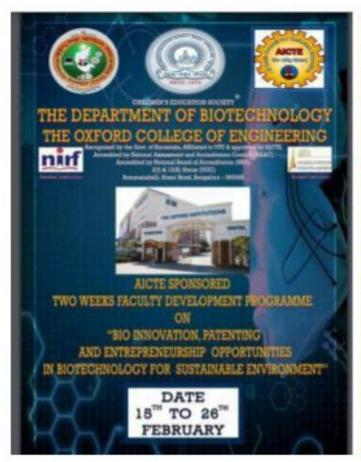
Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629,

(Approved by AICTE, New Delhi, Accredited by NAAC, New Delhi & Affiliated to VTU, Belgaum)

Website: <a href="https://www.theoxford.edu">www.theoxford.edu</a>.

#### Academic year 2020 -21 (Odd Sem)

# Report on AICTE sponsored Phase 1 FDP on Bioinnovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment from 15th to 26th February 2021





The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bioinnovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment" from 15<sup>th</sup> to 26<sup>th</sup> of February 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partners for the benefit of all the faculty members.

Day1: 15th February 2021

The FDP included a formal inaugural session compered by Mrs. Valarmathy K of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were Dr. G.T. Raju, Principal TOCE, and Dr. Amarnath K, Director, The Oxford Educational Institutions, also the Chief Guest on the occasion Dr. Manpreeth Singh Manna, Former Director, Sant Longowal Institute of Engineering and Technology, Punjab, Dr. B K Manjunath, HOD, Dept of Biotechnology, The Oxford College of

Engineering. Guest of Honour was Smt. Dr. Rangaswamy, Registrar evaluation, Visvesvaraya Technological University. The session was presided by the Chairman of The Oxford Educational Institutions, Sri. S N V L Narasimha Raju garu.

The welcoming speech was delivered by Dr. R.V. Praveena Gowda, Principal TOCE, who briefed about the objectives and the purpose of conducting this program. Dr.Manjunath, BT HOD of Biotechnology and the convenor of FDP spoke about the need of pedagogy in Engineering role of a teacher in igniting the young mind towards innovation through advanced teaching methods and highlighted the benefits of collaborative research, innovation and appreciated the kind support extended by VTPC in organising the FDP.

The programme progressed with the inaugural lecture by the Chief Guest, Dr. Manpreeth Singh Manna. In his talk he highlighted the R&D innovations in the perspective of Accredeation. The guest of honour, Dr. B.E. Rangaswamy, Registrar, VTU, gave the theme facilitation, where he addressed the importance of the program for the academicians. He also gave a glimpse of the activities going on in the Oxford College of Engineering. The post-lunch session was presented by Dr. Jaganath, Pasteur, Conoor, where he emphasized about vaccine development process and production.

Day 2: 16th February 2021

The second day started off with the lecture of Dr.B.K.Manjunath, BT HOD, TOCE. His talk was based on strategies for product development in the current perspective. The next lecture was given by Smt.Prabavathi Rao who talked about Vtpc initiative to promote GIs, as an important tool. The programme progressed with the lecture by Dr.S. Ayyappan, Chancellor, Central Agricultural University, Imphal, in which he talked about IOT in agriculture.

Day 3: 17th February 2021

The third day started with the lecture of Dr.R. Rajesh Kumar who talked on the integrated sustainable agriculture &rural Bio-enterpreneurship. The next lecture was given by Dr.Paramasivan, Scientist, ICMR, on the topic of vector borne disease in India and the need for options for innovation. The next talk was about intellectual property as a powerful tool to protect Biotech innovation by Mr.Vivek Anand Sagar. KSCST.

Day 4: 18th February 2021

The fourth day started with the lecture about entrepreneurship & Bio - innovation challenges & opportunities by Dr.Shridhar Hari Krishna Murthy, Scientific Advisor, VNS Enviro Biotech Pvt Ltd, Chennai. The second talk was delivered by Dr. T. Srinivas, IISC, on optical biosensors. As the last session of the day, Dr. Devaneyan, Director - Innovation & Entrepreneurship Professor - Sustainable Energy, MAHER - Meenakshi Academy of Higher Education & Research, highlighted about Bio-Innovation products and Entrepreneurial opportunities.

Day 5: 19th February 2021

The fifth day started with talk on the concepts & design intricacies of brain computer interfacing by Dr.Rama subba Reddy, IISC. The day progressed with the next lecture by Dr. Bijay Kumar Sahu, NRDC, who emphasised on IP Protection and Tools of IP. The last session was engaged by Dr.Bharath, Atrimed Pharmaceuticals Ltd, who talked on the need of bioinformatics and highlights of how to the cut the cost and break the IP.

Day 6: 20th February 2021

On the sixth day, Dr. N.G.Lakshmi Narayan, NRDC, talked about NRDC – Transforming Innovative Research in to Profitable Technology. In the second session, Dr. Yogamaya, Deputy Manager ,Biotech Consortium India Ltd(BCIL),New Delhi, talked about aligning applied research in Biotech for enhancing commercialization success. The last session was taken over by Dr.Brinda, IP attorney Consultant,IISC, who talked on Patenting biotechnological inventions.

Day 7: 22nd February 2021

The seventh day of the program started with the lecture by Dr.Nandhini, G.I.Expert Consultant, Foundation for revitalization for Local Health Traditions, who emphasised on the procedure of patenting. The program progressed with the next lecture by Dr. Sarasija, Tutor, Wpro & Advisory member KSCST, who talked about the prior art search related to biotechnology inventions.

Day 8: 23rd February 2021

The eighth day of the program commenced with the technical talk by Dr. Sundaresan, CMAP who gave details on medicinal and aromatic plants and about the prospects in cultivation and enterprises. The session was then taken over by Dr.Farah Deba, Former Scientist, Monsanto who emphasized on the identification of patents at the early stage of biotech inventions.

Day 9: 24th February 2021

The ninth day of the program began with the lecture by Dr.Sumitha Mishara, Amity University on the topic innovative research in thermal imaging for biomedical and agriculture applications. The second session was engaged by Dr. Padmapriya V Khurana, KSCST who discussed about Patent Drafting of Bio-Tec Inventions Techniques for biotechnology inventions.

Day 10: 25th February 2021

The tenth day of the program started with technical talk by Dr.N.Sriram, MSRIT, who explained about Bio-Innovation: MAKERSPACE-Idea to Prototype. The next talk was on the reply to examination report of patent application related to Bio-Tec Inventions by K S Dhurgesh, KSCST.

Day 11: 26<sup>th</sup> February 2021

The final day of the program started with informative lecture given by Mr. Gaurav Mishra Banana, KSCST, who emphasized on Infringement & Exceptions Under Patent Law Bio-Tec Research—Bolar exception and Bioequivalence.

This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

The Valedictory session was presided by Shri.S.N.V.L Narasimha Raju ,Chairman ,TheOxford Educational Institutions, Dr.B.K.Mnjaunath gave a detailed summary through presentation about the details of technical talks happened during the 14 days FDP and the participants were overwhelmed with the FDP and they expressed their happiness during the feed back session and the 14 days event was ended with the vote of thanks by Dr.K.Valarmathy,Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

#### Album of FDP event





#### Details of Registration

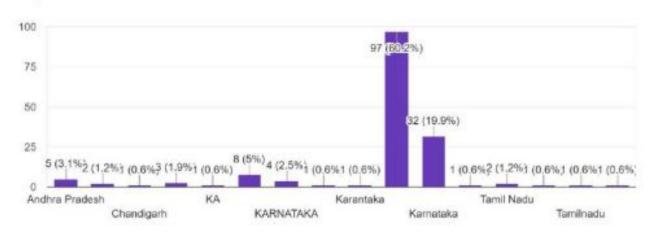
### Designation

161 responses



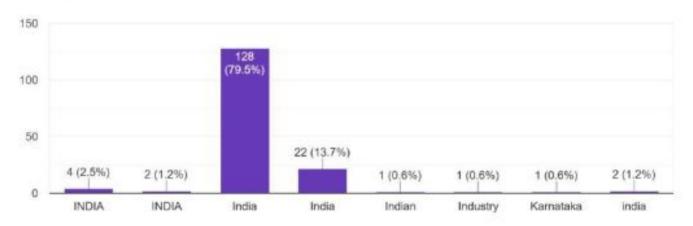
#### State

161 responses



#### Country

161 responses



		Leav	Dur	
20.20	1000	e	atio	2 2
Full Name	Join Time	Time	n	Email
		3/30	ļ	
		/202		
		1, 10:5		
	3/30/2021,	9:36		Surendra.Agrawal@nmims
Surendra Agrawal (Dr.)	10:59:08 AM		27s	.edu
outerior of the form	20133100 7111	3/30	27.5	1000
		/202		
		1,		
		3:48:		
	3/30/2021,	11		Surendra.Agrawal@nmims
Surendra Agrawal (Dr.)	3:47:21 PM	PM	49s	.edu
		3/30		
		/202		
		1,		
	100000000	11:1		
5. M H	3/30/2021,	1:11	12	
Dr Mayakkannan Gopal	10:59:10 AM	and the latest designation of the latest des	m	
		3/30		
		/202 1,		
		11:3	31	
	3/30/2021,	0:17	m	
Dr. Mandakini Kabi	10:59:12 AM	AM	4s	
		3/30	1.5	
		/202		
		1,		
		1:14:	2h	
	3/30/2021,	09	14	
Lakshminarayan (Guest)	10:59:12 AM	PM	m	
		3/30		
		/202		
		1,		
		4:10:		
12000100	3/30/2021,	55	5h	46.18.19@mgs2020.onmic
DEEPAK R	11:07:39 AM	PM	3m	rosoft.com
		3/30		
		/202		
		1, 11:1		
	3/30/2021,	4:05	4m	
Sindhu	11:09:39 AM	AM	26s	
(Mark Control (1996))	22,03,33 AW	3/30	203	
		/202		
		1,		
		11:2		
	3/30/2021,	0:14	8m	
Dr Mayakkannan Gopal	11:11:41 AM		33s	
		3/30		
		/202		
	1275-257-257-257-2	1,	898	
124 A.	3/30/2021,	11:1	3m	PTOSES SERVICES CONTRACTOR STATE AND
Dr.Ramneet Kaur	11:14:36 AM	8:10	34s	ramneetkaur@rimt.ac.in

		AM		
		3/30		
		/202		
		1,		
		1:16:	1h	
	3/30/2021,	46	55	
Dr.Ramneet Kaur	11:20:56 AM	457555	m	ramneetkaur@rimt.ac.in
	22120.0071111	3/30	-	The state of the s
		/202		
		1,		
		1:19:		
	3/30/2021,	21	2h	
Guest	11:18:09 AM	2000	1m	
duest	11.10.03 AIVI		7111	
		3/30		
		/202		
		1,	24	- II ONDER I I
	2/20/2024	11:3	21	admin@NBMehtasciencec
	3/30/2021,	9:42	m	ollegebor966.onmicrosoft.
Vikas Joshi	11:18:10 AM	-	32s	com
		3/30		
		/202		
		1,		
	39 85	1:04:	56	admin@NBMehtasciencec
77772	3/30/2021,	16	m	ollegebor966.onmicrosoft.
Vikas Joshi	12:08:06 PM	PM	10s	com
	8	3/30	S - 8	
		/202		
		1,		
		1:14:	1h	
	3/30/2021,	49	54	salma.kausar@theoxford.
Salma	11:20:17 AM	PM	m	edu
- Programmed		3/30	100	The second secon
		/202		
		1,		
		4:10:	4h	
	3/30/2021,	55	50	fdpbtoxford@theoxford.e
FDP BT		100000000000000000000000000000000000000	10000000	Control of the contro
FUF 01	11:20:27 AM	-	m	du
		3/30		1
		/202		
		1,		
	1242127223335	1:15:	1h	
	3/30/2021,	04	54	
Dr Mayakkannan Gopal	11:20:33 AM		m	
		3/30		1
		/202		1
		1,		1
		2.20.	3h	1
		2:38:		
	3/30/2021.	13	12	
Archana Vimal	3/30/2021, 11:25:47 AM	13	120000	
Archana Vimal		13 PM	12	
Archana Vimal		13 PM 3/30	12	
Archana Vimal		13 PM 3/30 /202	12	
Archana Vimal		13 PM 3/30 /202 1,	12 m	
Archana Vimal	11:25:47 AM	13 PM 3/30 /202 1, 1:14:	12 m	
W001 80 50	11:25:47 AM 3/30/2021,	13 PM 3/30 /202 1, 1:14: 55	12 m	
Archana Vimal ramathilaga (Guest) BTHOD	11:25:47 AM	13 PM 3/30 /202 1, 1:14: 55	12 m	BTHOD@theoxford.edu

	11.30.34 444	/202	F 7	
	11:28:34 AM	/202	57	
		1,	m	
		1:26:		
		15		
		PM		
		3/30		
		/202		
		1,		
		1:14:	1h	
	2/20/2024	52,500,000,000	0.0000000000000000000000000000000000000	
and the second second second second	3/30/2021,	53	46	
Mugdha Khandkar	11:28:45 AM	PM	m	
		3/30		
		/202		
		1,		
		1:16:	1h	
	3/30/2021,	32	46	
\DR.P.CHIDAMBARARAJAN (Guest)\""	11:30:28 AM	PM	m	
(DICI :CITIDAMDANANDAN (OCCSE)	44.50.20 AW	_	***	
		3/30		
		/202		
		1,	c gwm	
		1:14:	1h	
CO-C 997	3/30/2021,	51	44	Preetasharan@theoxford.
Preetasharan	11:30:46 AM	PM	m	edu
	1	3/30		
		/202		
		1,		
		12:2	57	
	2/20/2024	5000,0000	0.555	
(5 5595 E) E)	3/30/2021,	8:49	m	
Jyoti Marigoudar	11:30:52 AM	_	57s	
		3/30		
		/202		
		1,		
		12:1	43	
	3/30/2021,	5:32	m	
Mrs N.VASUGI	11:31:32 AM	477200	59s	
WII S 14. VASO GI	ALIJAIJE MINI	3/30	353	
		400000000000000000000000000000000000000		
		/202		
		1,	785	
		1:21:	1h	(1945) A 4400 A 4200 A 1960 A
	3/30/2021,	31	49	ASHA.INBANATHAN@dxb.
ASHA INBANATHAN	11:31:54 AM	PM	m	manipal.edu
		3/30		
		/202		
		1,		
		12:3	59	
	2/20/2024	7.900.000.0	1002701	
et a contact	3/30/2021,	1:58	m	
Shreenidhi	11:32:13 AM		44s	
		3/30		
		/202		
		1,		
		1:06:	1h	
	3/30/2021,	10	33	
\PARTHIBAN (Guest)\""	11:32:44 AM	PM	m	
TO SECURE A SECURE ASSOCIATION	AA.JE.44 MIVI	- Contractor - Con		
Reena Vishvakarma (Guest) 3/30/2021, 11:32:57 AM	2/20/2024	3/30	1h	
3/30/2021, 11:33:54 AM 56s Attendee	3/30/2021,	/202	41	
\"Dr. Geetha (gues(Guest)\""	11:33:24 AM	1,	m	
	<del>-</del>			

	-		53 - 3	
		1:14:		
		45		
		PM		
	2	3/30		
		/202		
		0.3777.03		
		1,		
	100000000000000000000000000000000000000	1:14:	1h	
	3/30/2021,	45	40	
Reena Vishvakarma (Guest)"	11:34:42 AM	PM	m	
https://teams.microsoft.com/l/meetup-		3/30		
join/19:meeting_YTU2ZDQwZDEtODgyYS00MjkxLWJhM		/202		
		0.0000000000000000000000000000000000000		
GMtZTFiODU1NTk4ZjRl@thread.v2/0?context={"Tid":"1		1,	33	
7712ef8-7969-4f3b-973d-	H178-201-2014-11-12	4:10:	4h	
754e65ccee50","Oid":"81d39e05-16b5-4fda-803a-	3/30/2021,	55	35	
aa0c88b2f1fa"}	11:35:08 AM	PM	m	
		3/30		
		100000000000000000000000000000000000000		
		/202		
		1,		
		11:5		
	3/30/2021,	7:09	22	
Chithra S	11:35:08 AM	AM	m	
Cintinu 3	44.33.00 AIVI	-		
		3/30		
		/202		
		1,		
		1:13:	1h	
	3/30/2021,	53	38	10X18BT005@theoxford.e
APARNA	11:35:21 AM	PM	m	du
Arabia	11.33.21 /101	-		
		3/30		
		/202		
		1,		
		12:2	51	
	3/30/2021,	7:26	m	
Dr.G.Carlin Geor Malar	11:35:36 AM	PM	49s	
Dr.G.Cariin Geor Walar	11.33.30 AIVI		495	
		3/30		
		/202		
		1,		
		1:15:	1h	
	3/30/2021,	55	38	10X18BT032@theoxford.e
CALCURUTUS MANNAN		20000		
SAI SHRUTHI KANNAN	11:37:04 AM	PM	m	du
		3/30		
		/202		
		1,		
		11:3		
	3/30/2021	9:10	1	10V17PT020@thaciford
	3/30/2021,	0.0000000000000000000000000000000000000	1m	10X17BT030@theoxford.e
Pavan Vignesh	11:37:43 AM	AM	26s	du
		3/30	1	
		/202	l	
		1,		
		1:15:	1h	
	2/20/22	555,038		
	3/30/2021,	08	37	sudevi_biotech@smvit.on
		PM	m	microsoft.com
DR. SUDEVI BASU	11:37:45 AM			
DR. SUDEVI BASU	11:37:45 AM	3/30		
DR. SUDEVI BASU	11:37:45 AM	02/200		
DR. SUDEVI BASU	11:37:45 AM	/202		
DR. SUDEVI BASU	100000000000000000000000000000000000000	/202 1,		
DR. SUDEVI BASU  DR. SUDEVI BASU	3/30/2021, 2:30:51 PM	/202	1m 1s	sudevi_biotech@smvit.on microsoft.com

		PM		
DR. SUDEVI BASU	3/30/2021, 2:33:45 PM	3/30 /202 1, 2:47: 17 PM	13 m 31s	sudevi_biotech@smvit.on microsoft.com
TEJAS	3/30/2021, 11:38:49 AM	3/30 /202 1, 12:4 2:54 PM	1h 4m	1OX18BT043@theoxford.e du
Bhuvaneswari S	3/30/2021, 11:40:58 AM	-	4h 29 m	
\Swati sharma (Guest)\""	3/30/2021, 11:44:06 AM	3/30 /202 1, 1:14: 49 PM	1h 30 m	
AFSHEEN AKTHAR	3/30/2021, 11:44:25 AM	3/30 /202 1, 2:42: 14 PM	2h 57 m	Afsheen2861.ups@unityp ublicschool.com
AVINASH KUMAR VIVEKANAND MISHRA	3/30/2021, 11:44:40 AM	3/30 /202 1, 1:25: 09 PM	1h 40 m	G_AVINASHKUMAR.MISH RA@ihubx.org
saranya	3/30/2021, 11:44:49 AM	3/30 /202 1, 11:5 3:33 AM	8m 44s	
\Dr. C. Divya (Guest)\""	3/30/2021, 11:45:46 AM	3/30 /202 1, 1:16: 04 PM	1h 30 m	
\\\\"thyagaraju g s (Guest)\\\"\""	3/30/2021, 11:45:56 AM	3/30 /202 1, 1:02: 53 PM	1h 16 m	
NAZEEMA BANU B	3/30/2021,	3/30	1h	bn@jmctry.onmicrosoft.co

	11:50:07 AM	/202	24	m
		1,	m	1000
		1:14:	0533	
		44		
		PM		
	+	3/30		
		/202		
		25-01-02-01		
		1,	1h	
	2/20/2024	1:23:	The state of the s	
Hardah Madahara Gadadha (Garah)	3/30/2021,	80	31	
Harish Venkatram Saripella (Guest)	11:51:14 AM		m	
		3/30		
		/202		
		1,	2000	
		1:14:	1h	
	3/30/2021,	58	23	10X18BT018@theoxford.e
M NITHYASHRI	11:51:41 AM		m	du
		3/30		
		/202		
		1,		
		11:5		
Wal - 452	3/30/2021,	6:25	2m	mohankumars@sjcacblr.o
mohankumars	11:53:27 AM	AM	58s	nmicrosoft.com
	1	3/30		
		/202		
		1,		
		1:52:	1h	
	3/30/2021,	08	56	
Dr. Mahipal Singh Kesawat (Guest)	11:55:24 AM	2012 01	m	
Dr. Waripar Singir Kesawat (Odest)	11.33.24 AW	3/30	311	,
		/202		
		1,		
		1:15:	1h	
	2/20/2021	14	18	
Shirt - S	3/30/2021,	\$7520E	2027	
Chithra S	11:56:27 AM	-	m	
		3/30		
		/202		
		1,	335	
	10000000000000000000000000000000000000	4:10:	4h	Property (PS, 19, 50, 50, AMAZON COURTED TO PROPERTY AND A TOMBORY
DIGIEROS INSTALINOSO AR	3/30/2021,	55	13	admin@PSREngineeringCo
KARTHIH M G	11:57:18 AM	_	m	llege827.onmicrosoft.com
		3/30		
	1	/202		
		1,		
		2:38:	2h	
	3/30/2021,	12	35	
Dr Rajashekhara S (Guest)	12:02:26 PM	PM	m	
The state of the s		3/30		
		/202		
		1,		
		12:2	17	
	3/30/2021,	0:36	m	
Sindhu	12:02:47 PM	PM	48s	
Jillulia	1 12.02.47 PIVI		403	
		2/20		
	HOUSE CONTACT NO.	3/30	26	
Dr Tanushree Sahoo	3/30/2021, 12:06:33 PM	3/30 /202 1,	2h 9m	

	- P		-	<u> </u>
		2:16:		
		15		
		PM		
		3/30		
		/202		
		1,		
		1:15:		
	3/30/2021,	53	1h	
Course Markensky		PM	9m	
Swaraj Mohanty	12:06:52 PM	-	9m	
		3/30		
		/202		
		1,		
	H200-007-0000-0100	12:0		Anni de la composition della c
	3/30/2021,	8:07		10X18BT019@theoxford.e
MADHURYA	12:07:34 PM	PM	32s	du
		3/30		
		/202		
		1,		
		1:07:	56	
	3/20/2021	16	1223	
D. D. L. L. L. L	3/30/2021,	1000000	m	
Dr. R. Jayalakshmi	12:11:12 PM	PM	3s	
		3/30		
		/202		
		1,		
		1:23:	1h	
	3/30/2021,	00	10	
Dr.Nayomi John	12:12:12 PM	PM	m	
2		3/30		
		/202		
		1,		
		2:15:		
	3/30/2021,	47		
Dr.Manjunath N.S (Guest)	12:15:11 PM	PM	2h	
		3/30		
		/202		
		1,		
		1:15:	53	
	3/30/2021,	43	m	
Aswathi	12:22:02 PM	PM	40s	aswathi@theoxford.edu
right delication and the second secon	12.22.02 PW	-	405	aswatting/tileoxiora.eda
		3/30		
		/202		
		1,		
	100000000000000000000000000000000000000	1:15:	50	
	3/30/2021,	00	m	
Dr.G.Carlin Geor Malar	12:24:57 PM	PM	2s	
		3/30	-	
		/202		
		1,		
		12:5	21	
	2/20/2024	54570707		503.0
	3/30/2021,	3:58	m	593@gmitdvn.onmicrosoft
Mr. Rakesh	12:32:55 PM	PM	3s	.com
		3/30		
		/202		
		1,	50	
	3/30/2021.	1.00		
Hemavathy R V		0.5000000000000000000000000000000000000	2002Y-224	
Hemavathy R V	3/30/2021, 12:33:29 PM	4.1 14.5-5	50 m 28s	

		PM		
		3/30		
		/202		
		1,		
		12:3		
	3/30/2021,	5:48		
Jatin R Rawal (Guest)	12:35:31 PM	PM	16s	
Service of Godesel	12.33.31 PIVI	3/30	103	
		/202		
		2.0		
		1, 12:3		
	3/30/3031	25/5/2003/200		
huoti marigoudar	3/30/2021,	6:11	24s	
Jyoti marigoudar	12:35:47 PM	PM	245	
		3/30		
		/202		
		1,		
	0.400.4000	1:09:	32	
	3/30/2021,	17	m	
Shreenidhi	12:36:49 PM	PM	28s	
		3/30		
		/202		
		1,		
	30 =0	1:23:	46	
77 - POD 1 - 100 - POD	3/30/2021,	25	m	
Jyoti marigoudar	12:37:03 PM	PM	21s	
	8	3/30	3 - 8	
		/202		
		1,		
		1:15:	36	
	3/30/2021,	20	m	
Rushikesh Sankpal	12:39:19 PM	PM	1s	
2000 NO. 1550 N. T. T. A. 200 E. T. A. 200 E		3/30		
		/202		
		1,		
		1:16:	25	
	3/30/2021,	52	m	
Mrs N.VASUGI	12:51:21 PM	100000000000000000000000000000000000000	315	
mo mynovsi	ACIDALEA FIVI	3/30	213	
		0.27		
		/202		
		1,	50	
	3/30/3034	1:43:	50	
Dr Manaon Sarita David	3/30/2021,	03	m	
Dr.Naorem Sarita Devi	12:52:29 PM		33s	
		3/30		
		/202		
		1,	27/23221	
	10.00 AND 10.00 AND 10.00	1:44:	37	
	3/30/2021,	21	m	
PARTHIBAN	1:06:26 PM	PM	54s	
		3/30		
		/202		
		1,		
		2:17:		
595 CO.S. (M)	3/30/2021,	26	1h	rs_chidhananda@blr.amrit
Chidhananda R S	1:09:50 PM	PM	7m	a.edu
Dr.R.Mohan	3/30/2021,	3/30	25	drmohan.eccs@excelcolle
DIMINIONAL	3/30/2021,	3/30	23	armonam.eccs@excelcone

	1:11:30 PM	/202 1, 1:37: 19 PM	m 48s	ges.onmicrosoft.com
Sreevani	3/30/2021, 1:14:15 PM	3/30 /202 1, 1:20: 51 PM	6m 36s	Sreevani@theoxford.edu
Ms. Ashvika	3/30/2021, 1:16:00 PM	3/30 /202 1, 1:16: 11 PM	10s	ashvika@srisaiuniversity.o
Dr. Gurumurthy	3/30/2021, 3:35:23 PM	3/30 /202 1, 3:50: 58 PM	15 m 35s	685@gmitdvn.onmicrosoft
SHEIK ABDULLA (Guest)	3/30/2021, 4:05:13 PM	3/30 /202 1, 4:05: 37 PM	23s	



#### Children's Education Society ®

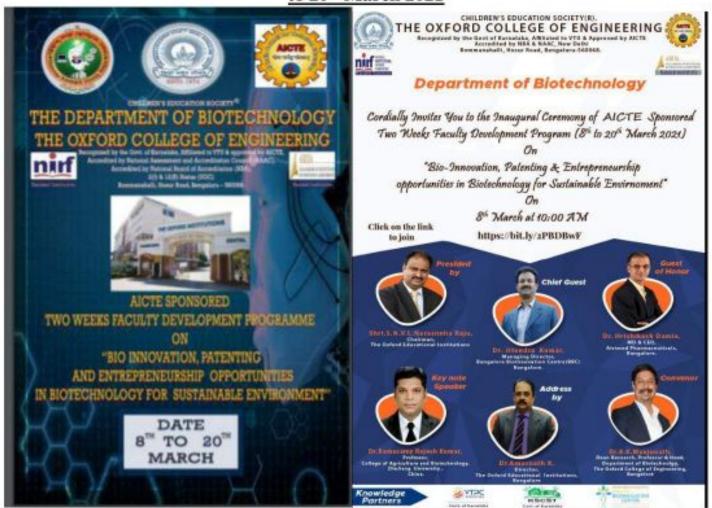
#### THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629,

(Approved by AICTE, New Delhi, Accredited by NAAC, New Delhi & Affiliated to VTU, Belgaum) Website: <a href="https://www.theoxford.edu">www.theoxford.edu</a>.

#### Academic year 2020 -21 (Odd sem)

# Report on AICTE sponsored Phase 2 FDP on Bioinnovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment from 8<sup>th</sup> to 20<sup>th</sup> March 2021



The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bioinnovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment" from 8<sup>th</sup> to 20<sup>th</sup> of March 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka, Bangalore Bioinnovation centre and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partners for the benefit of all the faculty members.

## Day1: 8th March 2021

The FDP included a formal inaugural session compered by Mrs.Valarmathy K of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were Dr. R.V. Praveena Gowda, Principal TOCE, and Dr. Amarnath K, Director, The Oxford Educational Institutions, also the Chief Guest on the occasion Dr. Jitendra Kumar, Managing Director, Bangalore Bioinnovation Centre

(BBC), Dr. B K Manjunath, HOD, Dept of Biotechnology, The Oxford College of Engineering. Guest of Honour was Dr. Hrishikesh Damle, MD & CEO, Atrimed Pharmaceuticals and Dr. Ramaswamy Rajesh Kumar, Professor, College of Agriculture and Biotechnology, Zhejiang University, China as Keynote speaker. The session was presided by the Chairman of The Oxford Educational Institutions, Sri. S N V L Narasimha Raju garu.

The first talk was delivered by Dr. Jitendar Kumar on "Creating an Innovative Ecosystem in Life Science".

Dr. Kumar emphasised on various factors that enhance the growth of biotechnology clusters and added a note on the services offered by Bangalore Bioinnovation Centre (BBC) in creating an innovation ecosystem.

The next session was by Dr. Hrishikesh Damle on "Starting your own company". Dr. Damle discussed in detail the qualities needed to be an entrepreneur along with the difficulties faced during the initial times of his company, Atrimed Pharmaceuticals.

Keynote speech was delivered by Dr. Ramaswamy Rajesh Kumar on "Integrated sustainable agriculture and rural bio-entrepreneurship". Dr. Kumar elaborated on the global challenges arising from various anthropological activities and the inventions related to sustainable agriculture.

# Day 2: 9th March 2021

The second day started off with an interesting speech on "Plant specialized metabolism and its engineering for commercial production of high value metabolites" by Girinath G. Pillai, PhD. Sir spoke of evolution of plant genome. The next session was delivered by Dr. K.S. Jagadeesh on "Towards development of a biostimulant using forest genetic resources for use in agriculture". Dr. Jagadeesh discussed about biostimulants, production, advantages of biostimulants over chemical fertilizers and their market potential. The last session of day 2 was handled by Dr. Srinivasa Mutalik on "Nanocarriers as drug delivery vehicles: overview and case studies". Dr. Mutalik gave a detailed lecture on the use of nanotechnology in drug delivery system.

# Day 3: 10th March 2021

The third day started with technical talk by Dr. N. Sriram who delivered a speech on "Bio-innovation: MAKERSPACE- Idea to prototype". Dr. Sriram spoke of different inventions in the field of health sciences and wearable electronics. Session 2 was engaged by Dr. Ramakanth from Nishant Aromas Pvt. Ltd. Sir elaborated on various MSME opportunities on aromatic plants. Session 3 was handled by Dr. Srinivas B V from Aspartika Biotech Pvt Ltd. Sr. Srinivas spoke on various innovative ideas for start ups.

# Day 4: 12th March 2021

The fourth day began with a talk on "Role of MSME in Indian economy" by Dr. Gopinath Rao from MSME Development Institute, Govt. of India. Dr. Gopinath talked us through various schemes offered by the Govt. of India along with a number of challenges faced by MSMEs. Session 2 for the day was engaged by Dr. Kailash Chandra Khulbe from CSIR- Indian Institute of Toxicology Research, on "Entrepreneurship: commercialization of scientific knowledge base". Dr. Khulbe elaborated on various probabilities to commercialize a scientific idea. Session 3 was engaged by Dr. Pradeep Kumar Verma from NMRL on "Innovations in marine biotechnology". Dr. Verma introduced the audiences to various aspects of marine biotechnology, creation of novel products from marine ecosystems and plenty of opportunities marine biotechnology has to offer to the young minds.

Day 5: 13th March 2021

The fifth day started with talk on the concept "Plant viral diseases and their management through biotechnological interventions" by Dr. Basava Prabhu L Patil. He elaborated on various plant viral diseases, their causative agents, development of disease resistant varieties. Session 2 was engaged by Dr. Nivedan on "Areca tea value added products from arecanut". Dr. Valarmathy K handled session 3 for the day on "Biotech entrepreneurship ideas and opportunities". Dr. Valarmathy talked us through various products developed and those which have successfully been commercialized

Day 6: 15th March 2021

The sixth day started with a talk on "Hidden healthcare informatics data exploration as an entrepreneurial niche" by Dr. Vidya Niranjan. Dr. Vidya pointed out the importance of data analytics in healthcare, elements and attributes pertaining to data analytics as well as different steps of data analytical processes. Session 2 was on "Art of writing research proposal for successful funding" by Dr. Preetha Sharan. Dr. Preetha elaborated on various terminologies like H index, i-10 index and ORCID ID along with their importance and relevance in publishing research articles. Session 3 was handled by Dr. B K Manjunath on "Technologies and funding opportunities". Dr. Manjunath spoke on various technology transfer opportunities in the field of biotechnology, production and commercialization of biopesticides and start up schemes of Govt. of India.

Day 7: 16th March 2021

The seventh day of the program started with a talk on "Isolation and characterization of anti-cancer compounds from natural sources" by Dr. Shama Prasada K. Sir discussed different cancer treatment options and different types of assays for diagnosing cancer cells. Session 2 was engaged by Dr. A Srinivas Rao on "Pesticides and their metabolites analysis: Environmental and biomarkers of human exposures and health issues". The next session was on the topic "Biotech patent case laws defining patentability criterion in different jurisdictions" by Smt. Ekta Prasad, Patent Agent, KSCST.

Day 8: 17th March 2021

The eighth day of the program commenced with the technical talk by Dr. Sarasija, Tutor, WIPO & Advisory member, KSCST, who gave details on the topic "Hands on training -Prior art search related to Biotechnology Inventions". The session was then taken over by Dr.C.R. Patil, Professor, University of

Agricultural Sciences, Karnataka, who emphasized on the types of microbial inoculants, current status, future prospects and quality standards.

Day 9: 18th March 2021

The ninth day of the program began with the lecture by Ms. Ankita Puranik, Innovation and Ecosystem Development Officer, BBC, on the topic "Start up ecosystem and funding opportunities". The second session was engaged by Dr. Meher Prakash, Cofounder, VNIR Biotechnologies Pvt Ltd, who discussed about "My journery, back and forth between academics and startup". The last session of the day was about the overview of government and non government funding agencies for research and development by Dr.B. K. Manjunatha.

Day 10: 19th March 2021

The tenth day of the program started with technical talk about the opportunities for starting a science-driven business by Dr. Raghuveer Ramachandra, Founder and Director, GaloreTx Pharmaceuticals Pvt Ltd. The last session was about 3D Bioprinting in India and about how it is shaping up healthcare and medicine by Mr. Piyush Padmanaban, Cofounder, Next Big Innovation labs, Bangalore.

Day 11: 20th March 2021

The eleventh day of the program started with informative lecture given by Dr.Arvind Vishwanath, CEO, Pitch Scientific, Bangalore, who emphasized on patent searching and analysis with reasons, data sources and methods. The second session was about newer avenues and skill sets for biotech entrepreneurship given by Dr. Pratima Kanderwal, Lead Facilitator. The last session of the technical talk was by Dr.Raju, Professor and Head of Department of Automobile Engineering, TOCE, on the topic "Biodiesel- a potent option for Entrepreneurship".

Day 12: 22nd March 2021

The last day of the FDP started with technical talk delivered by Dr. Nagendra, Professor & Head of the Department of Biotechnology, Sir M Visvesvaraya Institute of Technology, Bangalore, on the topic "Role of Educational Institutions in Promoting Innovations and Entrepreneurship development". The second session was on the topic "IOT in Agroproduction, Processing and retailing" by Dr. Manpreet Singh Manna.



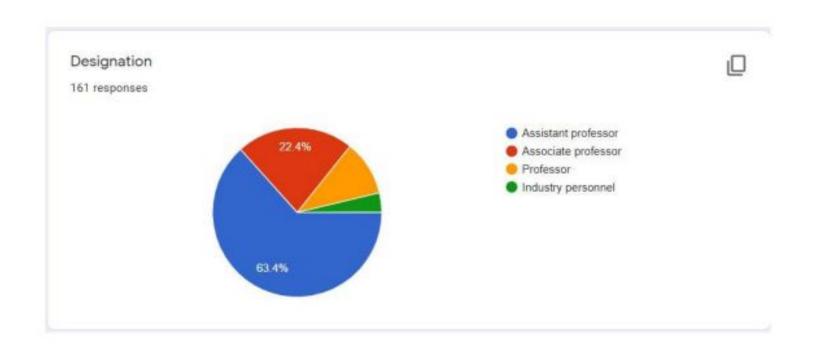
The Valedictory session was presided by Shri.S.N.V.L Narasimha Raju ,Chairman ,TheOxford Educational Institutions, and the Chief guest was Dr.Manpreet Singh Manna,Former Director,AICTE,Associate Professor,Department of Electrical and Instrumentation Engg,SLIET, Longowal, Punjab and Guest of Honor was Dr.H.G.Nagendra,Professor & Head,Department of Biotechnology ,Sir M.Visveswaraya Institute of Technology.Dr.B.K.Mnjaunath gave a brief presentation about the details of technical talks happened during the 14 days FDP and the participants were overwhelmed with the FDP and they expressed their happiness during the feed back session and the 14 days event was ended with the vote of thanks by Dr.K.Valarmathy,Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

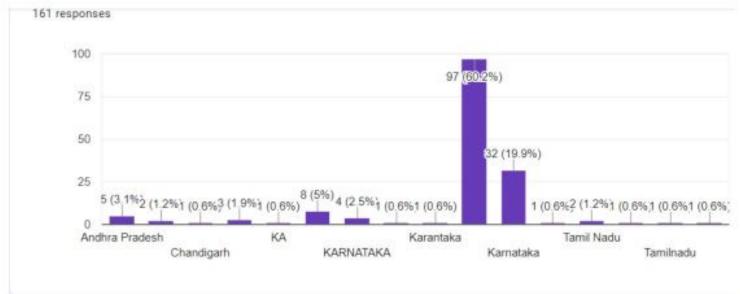
#### Album of FDP event

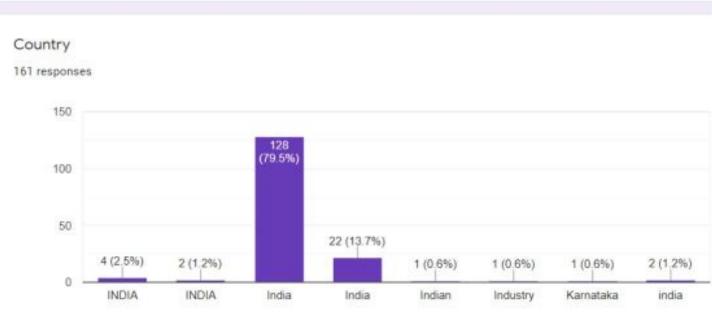




Details of Registration







	dr.valarmathyk@gmail .com	Dr.K.Valarmat		dr.valarmathyk@gmail .com	Biotechnol ogy	Asso ciate profe ssor	The Oxford College of Engineering
	drsubaraja89@gmail.c	Dr. M. SUBARAJA	9047408 017	drsubaraja89@gmail.c	Biochemist ry	Assis tant profe ssor	Vivekanandha College of Arts and Science for Women (Autonomous)
	nidhi.nath76@gmail.c	Ms Nidhi Nath	+918709 021723	nidhi.nath76@gmail.c	Life Science	Indus try perso nnel	Central University of Jharkhand
	gomathi83ms@gmail.	Dr. M. GOMATHI		gomathi83ms@gmail.	Biotechnol ogy	Assis tant profe ssor	Marudhar Kesari Jain College for Women
05/02/ 2021	sentilkr1993@gmail.c om	Sentiyanger Longkumer	9378167 057	sentilkr1993@gmail.c om	Zoology Departmen	Indus try	Nagaland University,

14:17: 56					t	perso nnel	Lumami
05/02/ 2021	sudhir75.k@gmail.co	Mr.K.SUDHEE R	9198857 72602	sudhir75.k@gmail.co m	BOTANY	tant	NTR GDC(W),MAHAB UBNAGAR, TELANGANA STATE
	ibrahim.labadi@yahoo .com	Ibrahim Al- Labadi	0036706 577948	ibrahim.labadi@yahoo .com	Environme nt	Indus try perso nnel	Szent Istvan University
	praveenramanujam@ gmail.com	Prof. R. Praveen Kumar		praveenramanujam@ gmail.com	Biotechnol ogy	Asso ciate profe ssor	Arunai Engineering College
05/02/ 2021 14:42:	arivoli82@gmail.com	Dr. A. ARIVOLI	9894289	arivoli82@gmail.com	Environme ntal Science	Assis tant profe ssor	Government Art's College
	spmicro1747@rediffm ail.com	Vijay S Wadhai		spmicro1747@rediffm ail.com	Microbiolo gy	Profe ssor	Sardar Patel Mahavidyalaya Chandrapur
	mano071989@gmail.c	Dr. P. MANOGAR	9894703 892	mano071989@gmail.c	PG and Research Departmen t of Botany	Assis tant profe ssor	Nehru Memorial College (Autonomous) Puthanampatti, Tiruchirappalli
	anisurehman.2011@r ediffmail.com	Dr. MOHD ANIS GANAIE	100000000000000000000000000000000000000	anisurehman.2011@r ediffmail.com	Zoology	Assis tant profe ssor	Higher education Department, Jammu and Kashmir
05/02/ 2021 14:56: 14	eswarseta@gmail.co m	Eswara Rao Tatta	9550090 133	eswarseta@gmail.co m	Departmen t of genomic science	Indus try perso nnel	Central University of Kerala
05/02/ 2021 14:57: 15	miniaayushi@gmail.co	MS.	9720952 868	miniaayushi@gmail.co	Molecular Biology	try	Dr. Sachin Saxena memorial Diagnostic Centre
05/02/ 2021 15:12: 18	tishaliza@gmail.com	Mrs.Tisha Liza Tomy	9539722 214	tishaliza@gmail.com	Biotechnol ogy	Assis tant profe ssor	St.Mary's College, Thrissur
	shovanbiswas231@g mail.com	Mr.SHOVAN BISWAS		shovanbiswas231@g mail.com	BOTANY	Indus try perso nnel	VISVA-BHARATI UNIVERSITY
	hariswethah@gmail.c	HARISWETH A. S	6381422 286	hariswethah@gmail.c	Biochemist ry	try	Vivekananda college of arts and science for women Autonomous
05/02/ 2021 15:17: 33	saranyaar@gmail.com	Mrs.A.R.SAR ANYADEVI	9786268 455	saranyaar@gmail.com	BIOCHEMI	Assis tant profe ssor	SOURASHTRA COLLEGE, MADURAI
05/02/	raghavanmku@gmail.	Dr. Raghavan Kuppu	9789121	raghavanmku@gmail.	Biochemist ry	Assis	Sourashtra

03						ssor	
	sanjuverma06@gmail.	Dr Sanjeev Kumar Verma		sanjuverma06@gmail.	Microbiolo gy	Assis tant profe ssor	VCSG UUHF Bharsar Pauri Garhwal Uttarakhand
05/02/ 2021 15:24: 38	rashms@gmail.com	Dr. Rashmi S	9886616 004	rashms@gmail.com	PG Departmen t of Botany	Assis tant profe ssor	JSS College of Arts, Commerce and Science
05/02/ 2021 15:24: 44	vinogenes@gmail.co m	Dr. S. Vinoth	9894277 726	vinogenes@gmail.co m	Biotechnol ogy	Assis tant profe ssor	Sona College of Arts and Science
	malarswamy82@gmai l.com	MS.R.MALAR KODI		malarswamy82@gmai l.com	Biochemist ry	Assis tant profe ssor	Marudhar kesari jain college for women vaniyambadi
	achankunjujackson@g mail.com	Dr. JACKSON ACHANKUNJ U	+968923 37103	achankunjujackson@g mail.com	College of Applied and Health Sciences, A'Sharqiya h University	Assis tant profe ssor	ASU
	thiruchelvi.se@velsuni v.ac.in	R THIRUCHELV		thiruchelvi.se@velsuni v.ac.in	BioEngine ering, B. Tech Biotechnol ogy	Assis tant profe ssor	Vels Institute of Science Technology and Advanced Studies
	manishky77794@gma il.com	MANISH KUMAR YADAV		manishky77794@gma il.com	BOTANY	Indus try perso nnel	VBS PURVANCHAL UNIVERSITY JAUNPUR
05/02/ 2021 16:33: 58	shou.hebal@gmail.co m	Dr. Shouriehebal Soni	9769901 864	shou.hebal@gmail.co m	Zoology	Assis tant profe ssor	Bhavan's College, Andheri West, Mumbai
	chaitali190235@gmail	Dr.Chaitali Mathew		chaitali190235@gmail .com	Biotechnol ogy	Assis tant profe ssor	Swami Shri Swaropanand Saraswati Mahavidyala Bhilai
	jeevanaakashp@gmai I.com	M.HEMA MANI		jeevanaakashp@gmai l.com	BIOCHEMI STRY	Assis tant profe ssor	SOURASHTRA COLLEGE
	hodb.techbiotech@vel suniv.ac.in	Dr.Brindha Devi P		hodb.techbiotech@vel suniv.ac.in	Bioenginee ring	Asso ciate profe ssor	Vels Institute of science technology and advanced studies
	anjanaantonybio2020 @smctsr.ac.in	Ms.Anjana Antony		anjanaantonybio2020 @smctsr.ac.in	Bsc.biotec hnology	Assis tant profe ssor	St.Mary's
	prathimar591@gmail.c	Prathima.R	8277540 375	prathimar591@gmail.c	Microbiolo gy	Indus try perso nnel	JSS Academy of Higher Education and Research
05/02/ 2021	gautam1436@gmail.c om	Dr. Surendra Gautam	9893084 391	gautam1436@gmail.c om	Life Sciences	Assis tant	Faculty of Science, Shri

19:00: 24						profe ssor	Rawatpura Sarkar University
	dr.mohanindia@gmail.	Dr.R.MOHAN		dr.mohanindia@gmail.	Business Administrat	Assis tant profe ssor	Excel College for Commerce and Science
05/02/ 2021 22:22: 11	selvincivil1992@gmail .com	SELVIN M		selvincivil1992@gmail .com	civil	Indus try perso nnel	SSS Construction
05/02/ 2021 22:29: 50	hasan.zia7@gmail.co m	Mr. Ziaul Hasan	9718496 463	hasan.zia7@gmail.co m	Bioscience s	Assis tant profe ssor	Jamia Millia Islamia
	hadifarhan111@gmail.	Mr.		hadifarhan111@gmail.	Botany	Indus try perso nnel	University of Kashmir, Srinagar
	santosh.satapathy@p ec.edu	Santosh Kumar Satapathy		santosh.satapathy@p ec.edu	CSE	Assis tant profe ssor	Pondicherry Engineering College, Puducherry
06/02/ 2021 08:45: 52	ky9256699@gmail.co m	Ms Krishna Yadav	9554635 582	ky9256699@gmail.co m	Zoology	Indus try perso nnel	Vbspu
	yogan.logesh@gmail.	LOGESH S		yogan.logesh@gmail.	Departmen t of Biotechnol ogy and Bioinformat ics	try	JSS Academy of Higher Education and Research
	shabeer.sanbio@gmai	Dr. N. SHABEER AHMED		shabeer.sanbio@gmai l.com	Biotechnol ogy	Assis tant profe ssor	Islamiah college (Autonomous)
	abhishekgupta2030@gmail.com	Dr. Abhishek Gupta		abhishekgupta2030@gmail.com	Departmen t of Zoology, NAS College, Meerut	Assis tant profe ssor	Chaudhary Charan Singh University, Meerut, UP, India
	sowmya.se@velsuniv. ac.in	Ms. H.Sowmya		sowmya.se@velsuniv. ac.in	Biotechnol ogy	tant	Vels Institute of Science Technology and Advanced Studies
	ms.microhoney@gmai	Dr.R.Mythili		ms.microhoney@gmai l.com	Microbiolo gy	Assis tant profe ssor	K.S.Rangasamy College of Arts and Science
	murkutesupriya95@g mail.com	Ms.Supriya devanand murkute		murkutesupriya95@g mail.com	Departmen t of microbiolo gy	Assis tant profe ssor	N.B.Mehta science College, bordi
06/02/ 2021 18:25: 57	biogoms@gmail.com	Mr. G. GOMATHI SANKAR	9994281 438	biogoms@gmail.com	Biotechnol ogy	Assis tant profe ssor	Jeppiaar Engineering College
06/02/ 2021	rajgobi@gmail.com	Dr. KUPPANNAN	7708008 619	rajgobi@gmail.com	Microbiolo gy	Assis tant	VIVEKANANDH A COLLEGE OF

18:28: 21		G				profe ssor	ARTS AND SCIENCES FOR WOMEN
	Shivangiverma401@g mail.com	Ms SHIVANGI		Shivangiverma401@g mail.com	Biochemist ry	Indus try perso nnel	DEPARTMENT
	josephcdaniel@yahoo .com	Dr. S. Joseph Christian Daniel		josephcdaniel@yahoo .com	Microbiolo gy	Asso ciate profe ssor	St. Joseph's College of Arts and Science Autonomous
06/02/ 2021 18:44: 01	dipalids.bo@gmail.co	Ms.Dipali Dilip Shelke	8999186 211	dipalids.bo@gmail.co m	Biophysics	Indus try perso nnel	Vakhard
06/02/ 2021 18:45: 59	biorahul4@gmail.com	Mr. RAHUL KHUSHALRA O DHABALE	9420661 432	biorahul4@gmail.com	Departmen t of Botany	Assis tant profe ssor	Bhagwantrao Arts & Science College, Etapalli
06/02/ 2021 18:57:		Mr.S.Ivo Romauld	9500068	ivoromauld.se@velsu niv.ac.in	Bioenginee	tant	VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES
	rajnishsingh846@gma il.com	Mr RAJNISH SINGH		rajnishsingh846@gma il.com	Biotechnol ogy	Indus try perso nnel	GCRG GROUP OF INSTITUTIONS, LUCKNOW
06/02/ 2021 19:08:	2.1.17.17.11.1.1	Mr. Assem Antar Abdelalem	+201068 983906	asem_micro1980@hot mail.com		Indus try perso nnel	Misr university for Science and technology
06/02/ 2021 19:18:		Dr. Dinesh kumar	9540784	dinesh.kumar@shobhi tuniversity.ac.in	BIOTECH NOLOGY	Assis tant profe ssor	Shobhit deemed university
06/02/ 2021 19:25:	swethauk_78@yahoo.	Dr. Swetha Sunkar	9940483	swethauk_78@yahoo.	Bioinformat	Asso ciate	Sathyabama institute of science and technology
	varalakshmi@stmarys college.in	Ms. V. Varalakshmi		varalakshmi@stmarys college.in	Biotechnol ogy	Assis tant profe ssor	St. Mary's College
06/02/ 2021 20:08:		Dr. Saraswathy Nagendran	9820391	saraswathy76@yahoo	Botany	Asso ciate profe ssor	Mithibai College of Arts Chauhan Institute Of Science And Amrutben Jivanlal College Of Commerce And Economics, Mumbai
	prasanna.r.kovath@s mctsr.ac.in	Mrs.Prasanna R Kovath		prasanna.r.kovath@s mctsr.ac.in	Biotechnol ogy	Assis tant profe ssor	St.Mary's college Thrissur Kerala India
	suvojitghosh347@gm ail.com	Mr.Suvojit Ghosh		suvojitghosh347@gm ail.com	Botany	Indus try	Visva Bharati

21:01: 46						perso nnel	
06/02/ 2021 21:07:	abhithabhi12196@gm ail.com	ABHISHEK KUMAR		Abhithabhi12196@gm ail.com	Biotechnol ogy	Profe ssor	Himachal Pradesh University summer hill shimla
	aghosal5678@gmail.c	Anup Ghosal	9038882 695	aghosal5678@gmail.c	Food and Nutrition	Profe ssor	Prabhu Jagatbandhu College
06/02/ 2021 22:06: 41	mayurchandranshu@gmail.com	Mr. Mayur Chandranshu Mishra		mayurchandranshu@ gmail.com	Biological Sciences	Assis tant profe ssor	Mahatma Gandhi Chitrakoot Gramoday University
06/02/ 2021 23:21: 54	rushasri@gmail.com	Mrs R.USHASRI	9884536 419	rushasri@gmail.com	MICROBIO LOGY	Assis tant profe ssor	J.B.A.S college for women
07/02/ 2021 00:24:	attahalfa@gmail.com	Mr. Abdullahi Attah Alfa	0806022 2458	attahalfa@gmail.com	Anatomy	Indus try perso nnel	Kogi State University, Anyigba
07/02/ 2021	masilamani.biotech@s athyabama.ac.in	Dr.	8939142	masilamani.biotech@s athyabama.ac.in	Biotechnol	Asso ciate profe ssor	Sathyabama University
07/02/ 2021 03:56: 37	b.btnathan@gmail.co	Dr. Bharathi Ravikrishnan		b.btnathan@gmail.co	Biotechnol ogy	Assis tant profe ssor	Guru Nanak College
07/02/ 2021 07:05: 57	biologiask@gmail.com	Dr. S. Karthick Raja Namasivayam	9842441 198	biologiask@gmail.com	Biotechnol ogy	Profe ssor	Sathyabama Institute of Science and Technology
07/02/ 2021 07:50: 38	sridevi@vmkvec.edu.i	Dr.M.Sridevi	9942364 284	sridevi@vmkvec.edu.i	Biotechnol ogy	Profe ssor	Vinayaka Mission's Kirupananda Variyar Engineering College,Salem
	drkrishnakumar_phd @yahoo.com	Dr.S.Krishnak umar	9444728 401	drkrishnakumar_phd @yahoo.com	Biomedcal	Asso ciate profe ssor	Sathyabama Institute of Science and Technology
	drsudhakar35@gmail.	Sathyabama institute of science and technology	9840401 909	drsudhakar35@gmail.	Biomedical	Assis tant profe ssor	Sathyabama institute of science and technology
07/02/ 2021 08:53:	jahangeerevs@gmail.	Mr. JAHANGEER MOHD RESHI	8825031	jahangeerevs@gmail.	Environme ntal science	Assis tant profe ssor	Govt Degree College, Pampore, Kashmir, India
	suresh.unigoa@gmail.	Dr		suresh.unigoa@gmail.	Bacteriolog y	Assis tant profe ssor	ICAR-NIVEDI
	parthabiology2018@r ediffmail.com	Dr Partha Ghosh		parthabiology2018@r ediffmail.com	Anthropolo gy and Human	Indus try perso	Compudemy

52					Genetics	nnel	
	ashainb2017@gmail.c	Ms. ASHA INBANATHAN	+971565 801143	ashainb2017@gmail.c	School of Life Sciences	try	Manipal Academy of Higher Education, Duba Campus
	psakthiselvan.se@vel suniv.ac.in	Dr Sakthiselvan Punniavan		psakthiselvan.se@vel suniv.ac.in	Bio- Engineerin g	tant	Vels Institute of Science Technology and Advanced Studies (VISTAS)
	meenambiga.se@vels univ.ac.in	Dr SS Meenambiga		meenambiga.se@vels univ.ac.in	Vels Institute of Science Technolog y and Advanced Studies	Assis tant profe ssor	Vels Institute of Science Technology and Advanced Studies
	chemistshivam007@g mail.com	MR. SHIVAM KASHYAP		Chemistshivam007@g mail.com	CHEMIST RY	Indus try perso nnel	D. N. COLLEGE, MEERUT
	anujsaini5413@gmail.	Anuj Saini		anujsaini5413@gmail.	Chemistry	Indus try perso nnel	D N COLLEGE
	akshduttparashar@g mail.com	Aksh Dutt Parashar		akshduttparashar@g mail.com	Chemistry	Indus try perso nnel	D N college Meerut
	kavyasathyanathan@gmail.com	KAVIA V		kavyasathyanathan@gmail.com	Biochemist ry	Indus try perso nnel	kvasu
	Ibnalanbar664@gmail.	M.Sc Taha Yaseen Salih Alqaisy	0	Ibnalanbar664@gmail.	Departmen t of physics		University of Anbar/college of Education
	riyasingh2217@gmail.	Miss Riya		riyasingh2217@gmail.	Chemistry	Profe ssor	D.N. College meerut
	gowthamrkumar750@ gmail.com	Mr. Gowtham.R		gowthamrkumar750@ gmail.com	Biotechnol ogy	Assis tant profe ssor	Dr. NGP College of arts and sciences autonomous
	sangeeta.thakkar9@g mail.com	Ms		Sangeeta.thakkar9@g mail.com	Life science	Indus try perso nnel	Tvs
	artheerajendran@gma il.com	Dr. Arthee R		artheerajendran@gma il.com	Departmen t of Crop Production and PHT	Indus try perso nnel	ICAR National Research Centre for Banana
	pummyy995@gmail.c	Usama Ansari	7060744 759	pummyy995@gmail.c	Chemistry	Indus try perso nnel	D N Degree College, Meerut
	narayanadeepmaurya @gmail.com	DEEP NARAYAN	96541 78896	narayanadeepmaurya @gmail.com	Chemistry	Assis tant	DN college meerut

22:41:		MAURYA				profe	
08/02/ 2021 23:35:	agarwalravi.ibt13@gm ail.com	Dr.Ravindra kumar Agarwal		agarwalravi.ibt13@gm ail.com	Center for Health and Applied Sciences	Assis	Ganpat University
	aghosal5678@gmail.c	ANUP GHOSAL	9038882 695	aghosal5678@gmail.c	FNT	Profe ssor	Prabhu Jagatbandhu College
	medha.deorari143@g mail.com	Ms. Mahamedha Deorari		medha.deorari143@g mail.com	Uttarancha I Institute of Pharmace utical Sciences	Assis tant profe ssor	Uttaranchal University
	sarakumar1415@gma il.com	Ms. S.Saranya		sarakumar1415@gma il.com	MSc Microbiolo gy	Indus try perso nnel	-
	drishtigandhi63@gmai	DRISHTI SATISH GANDHI		drishtigandhi63@gmai I.com		Asso ciate profe ssor	GURU NANAK KHALSA COLLEGE
09/02/ 2021 21:12:	anbu_nanthu@rediffm ail.com		9894262	anbu_nanthu@rediffm ail.com	Microbiolo gy	Asso ciate profe ssor	Vivekananda college of Arts and Sciences for Women
	sr.paranthaman@gma il.com	DR.S.R.PARA NTHAMAN		sr.paranthaman@gma il.com		Assis tant profe ssor	Vivekanandha college of Arts and Sciences for Women(Autono mous)
	shobhitsaini1998@gm ail.com	Shobhit saini		Shobhitsaini1998@gm ail.com	Chemistry	Indus try perso nnel	D. N. College
02/03/ 2021 12:21:	sridevi.indira@gmail.c	Dr. V. Sridevi	9494713 315	sridevi.indira@gmail.c	Biological sciences	Assis tant profe ssor	SREE VIDYANIKETHA N DEGREE COLLEGE
02/03/ 2021 12:22: 01	biogoms@gmail.com	Mr. G. Gomathi Sankar	9994281	biogoms@gmail.com	Biotechnol ogy	Assis tant profe ssor	Jeppiaar Engineering College
	srinivasgudibanda@g mail.com	Dr.P.L.SRINIV ASA MURTHTY	9886265	srinivasgudibanda@g mail.com	Mechanical		B.N.M.Institute of Technology
02/03/ 2021 12:29:	aghosal5678@gmail.c	Anup Ghosal		aghosal5678@gmail.c	Food and Nutrition	Profe ssor	Prabhu
02/03/ 2021 12:31:	biologiask@gmail.com	Dr.S.Karthick Raja	9842441	biologiask@gmail.com	Biotechnol		Sathyabama Institute of science and technology
02/03/ 2021 12:32:	aneeshsharma86@g mail.com	Mr. Aneesh kumar	9887734	aneeshsharma86@g mail.com	Zoology	Assis tant profe ssor	Sri Sai University Palampur Himachal Pradesh

02/03/ 2021 12:36: 09	180477@sdmcujire.in	RACHANA	9108630 638	180477@sdmcujire.in	Botany	Asso ciate profe ssor	SDM COLLEGE,(AUT ONOMOUS), UJIRE.
02/03/ 2021 12:36: 48	rrushasri@gmail.com	Mrs R.USHASRI	9884536 418	rushasri@gmail.com	MICROBIO LOGY	Assis tant profe ssor	J.B.A.S college for women
02/03/ 2021 12:39: 03	kmramya6@gmail.co	Prof. RAMYA K M	9482205 216	kmramya6@gmail.co m	Computer Science and Engineerin g	Assis tant profe ssor	HKBK College of Engineering
	balu10.honey@gmail.	Dr. M. V Balasubraman yam		balu10.honey@gmail.	Zoology	Assis tant profe ssor	GFGC and PG centre, Chintamani -563 125
	ashainb2017@gmail.c	Ms. ASHA INBANATHAN	+971565 801143	ashainb2017@gmail.c	School of Life Sciences	try	Manipal Academy of Higher Education, Dubai Campus
	drtamizhselvang@nitt e.edu.in	Dr. Tamizh Selvan G		drtamizhselvang@nitt e.edu.in	Central Research Laboratory	Assis tant profe ssor	K.S. Hegde Medical Academy, Nitte (Deemed to be University)
	halimajenish@gmail.c	Mrs. Halima R	8197218 767	halimajenish@gmail.c	Biotechnol ogy	Assis tant profe ssor	Sir M Visvesvaraya Institute of Technology
	drkrishnakumar_phd @yahoo.com	Dr. S. KRISHNAKU MAR		drkrishnakumar_phd @yahoo.com		Asso ciate profe ssor	Sathyabama Institute of Science and Technology
	ms.microhoney@gmai l.com	Dr.R.Mythili		ms.microhoney@gmai	Microbiolo gy	Assis tant profe ssor	K.S.Rangasamy College of Arts and Science College
	nivedita_biotech@sir mvit.edu	A.NIVEDITHA		nivedita_biotech@sir mvit.edu	BIOTECH NOLOGY ENGINEE RING	Asso ciate profe ssor	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
	vishakh.kedilaya@nitt e.edu.in	Dr Vishakh R		vishakh.kedilaya@nitt e.edu.in	Central Research Laboratory	Assis tant profe ssor	KS HEGDE MEDICAL ACADEMY
02/03/ 2021 14:24: 05	kavyamv25@gmail.co	Kavya M V	7899351 862	kavyamv25@gmail.co m	Biotechnol ogy	Assis tant profe ssor	Sapthagiri College Of Engineering
	shobhag@sapthagiri.e du.in	Dr Shobha G		shobhag@sapthagiri.e du.in		Assis tant profe ssor	Sapthagiri College of Engineering
	drsudhakar35@gmail.	T SUDHAKAR		drsudhakar35@gmail.	biomedical	Assis tant profe ssor	Sathyabama Institute of Science and Technology
02/03/	ullalharshini@nitte.ed	Dr. ULLAL	9741508	ullalharshini@nitte.ed	Biotechnol	Assis	NMAMIT

2021 14:35: 15	u.in	HARSHINI DEVI	056	u.in	ogy	tant profe ssor	
	murkutesupriya95@g mail.com	Ms.supriya devanand murkute		murkutesupriya95@g mail.com	Microbiolo gy	Assis tant profe ssor	N.B.MEHTA SCIENCE COLLEGE, BORDI
	preetham0291@gmail .com	preetham Guledal		preetham0291@gmail .com	Information science and engineerin g	Assis tant profe ssor	Bapuji institute of engineering technology
	gm.dhananjayabiet@y ahoo.com	DHANANJAY A G M		gm.dhananjayabiet@y ahoo.com	information science and engineerin g	Assis tant profe ssor	BIET DAVANGERE
02/03/ 2021 14:52: 59	drpadma28@gmail.co m	Dr. Padmaja.	9742777 234	drpadma28@gmail.co	Prosthodo ntics	Asso ciate profe ssor	Oxford dental college
	nagamadhu74@gmail.	Dr. Nagamadhu M		nagamadhu74@gmail.	Departmen t of Mechanical Engineerin g	Assis tant profe ssor	Acharya Institute of Technology
	manoharswati0@gmai	Dr Swati Manohar		manoharswati0@gmai I.com	Pedodontic s and preventive dentistry	Assis tant profe ssor	The Oxford dental college and hospital
	drishtigandhi63@gmai I.com	Drishti Satish Gandhi		drishtigandhi63@gmai I.com	Microbiolo gy	Indus try perso nnel	Guru Nanak Khalsa College
02/03/ 2021 16:59: 31	svravikanth@gmail.co m	Dr. S.V. Ravikanth	9492579 009	svravikanth@gmail.co m	Biological Sciences	Assis tant profe ssor	Sree Vidyanikethan Degree college
02/03/ 2021 17:01: 19	attahalfa@gmail.com	Mr. Abdullahi Attah Alfa	0806022 2458	attahalfa@gmailm	Anatomy	Indus try perso nnel	Kogi State University, Anyigba
	Ibnalanbar664@gmail.	M.Sc Taha Yaseen Salih Alqaisy	00964	Ibnalanbar664@gmail.	Departmen t of physics	Assis tant profe ssor	University of Anbar/college of Education for Pure Sciences
	sarakumar1415@gma il.com	Ms.S.SARAN YA		sarakumar1415@gma il.com	MSc Microbiolo gy	Indus try perso nnel	-
	josephcdaniel@yahoo .com	Dr. S. Joseph Christian Daniel		josephcdaniel@yahoo .com	Microbiolo gy	Asso ciate profe ssor	St. Joseph's College of Arts and Science (Autonomous),
	suresh.unigoa@gmail.	Dr SureshKumar		suresh.unigoa@gmail.		Assis tant profe ssor	ICAR-NIVEDI
03/03/ 2021 07:18:	swethauk_78@yahoo.	Dr. Swetha Sunkar		swethauk_78@yahoo. co.in	Bioinformat ics	Asso ciate profe	Sathyabama institute of science and

32						ssor	technology
	akku10.ashvika@gmai I.com	Ashvika Pathania		akku10.ashvika@gmai I.com	Departmen t of Zoology	Assis tant profe ssor	Sri Sai University Palampur
	msharmahpkv1983@g mail.com	Dr. MEENAKSHI SHARMA		msharmahpkv1983@g mail.com	ZOOLOGY	Assis tant profe ssor	SRI SAI UNIVERSITY, PALAMPUR
	shrishanaik@sdmcujir e.in	Dr.		shrishanaik@sdmcujir e.in	Biotechnol ogy	Assis tant profe ssor	Sri Dharmastala Manjunatheshwa ra College (Autonomous)
	varalakshmi@stmarys college.in	Ms. V. Varalakshmi		varalakshmi@stmarys college.in	Biotechnol ogy	Assis tant profe ssor	St. Mary's College, Yousufguda, Telangana
	deepalismbl03@gmail .com	Deepali		deepalismbl03@gmail .com	Zoology	Assis tant profe ssor	Sri sai university palampur himachal pradesh (H.P)
	Preethibiotech2009@gmail.com	Mrs.V.PREET		Preethibiotech2009@gmail.com	Biotechnol ogy	Assis tant profe ssor	RDB College,Papanas am
	balu10.honey@gmail.	Dr. M.V.Balasubra manyam		balu10.honey@gmail.	Zoology	Assis tant profe ssor	GFGC and PG Centre,Chintama ni
	dr.valarmathyk@gmail .com	Dr.K.Valarmat hy		dr.valarmathyk@gmail .com	Biotechnol ogy	Asso ciate profe ssor	The Oxford College of Engineering
	drsubaraja89@gmail.c	Dr. M. SUBARAJA	9047408 017	drsubaraja89@gmail.c	Biochemist ry	Assis tant profe ssor	Vivekanandha College of Arts and Science for Women (Autonomous)
	nidhi.nath76@gmail.c	Ms Nidhi Nath	+918709 021723	nidhi.nath76@gmail.c	Life Science	Indus try perso nnel	Central University of Jharkhand
	gomathi83ms@gmail.	Dr. M. GOMATHI		gomathi83ms@gmail.	Biotechnol ogy	Assis tant profe ssor	Marudhar Kesari Jain College for Women
	sentilkr1993@gmail.c	Sentiyanger Longkumer	9378167 057	sentilkr1993@gmail.c	Zoology department	Indus try perso nnel	Nagaland University,Luma mi
05/02/ 2021 14:18: 23	sudhir75.k@gmail.co	Mr.K.SUDHEE R	9198857 72602	sudhir75.k@gmail.co m	BOTANY	Assis tant profe ssor	NTR GDC(W),MAHAB UBNAGAR, TELANGANA STATE
	ibrahim.labadi@yahoo .com	Ibrahim Al- Labadi	0036706 577948	ibrahim.labadi@yahoo .com	Environme nt	Indus try perso nnel	Szent istvan University
	praveenramanujam@ gmail.com	Prof. R. Praveen		praveenramanujam@ gmail.com	Biotechnol ogy	Asso ciate	Arunai Engineering

14:41: 37		Kumar				profe ssor	College
05/02/ 2021 14:42: 26	arivoli82@gmail.com	Dr. A. ARIVOLI	9894289 210	arivoli82@gmail.com	Environme ntal Science	Assis tant profe ssor	Government Art's College
	spmicro1747@rediffm ail.com	Vijay S Wadhai		spmicro1747@rediffm ail.com	Microbiolo gy	Profe ssor	Sardar Patel Mahavidyalaya Chandrapur
	mano071989@gmail.c	Dr. P. MANOGAR	9894703 892	mano071989@gmail.c	PG and Research Departmen t of Botany	Assis tant profe ssor	Nehru Memorial College (Autonomous) Puthanampatti, Tiruchirappalli
	anisurehman.2011@r ediffmail.com	Dr. MOHD ANIS GANAIE		anisurehman.2011@r ediffmail.com	Zoology	Assis tant profe ssor	Higher education Department, Jammu and Kashmir
05/02/ 2021 14:56: 14	eswarseta@gmail.co m	Eswara Rao Tatta	9550090 133	eswarseta@gmail.co m	Departmen t of genomic science	Indus try perso nnel	Central University of Kerala
05/02/ 2021 14:57: 15	miniaayushi@gmail.co	MS.	9720952 868	miniaayushi@gmail.co m	Molecular Biology	try	Dr. Sachin Saxena memorial Diagnostic Centre
05/02/ 2021 15:12: 18	tishaliza@gmail.com	Mrs.Tisha Liza Tomy		tishaliza@gmail.com	Biotechnol ogy	Assis tant profe ssor	St.Mary's College, Thrissur
	shovanbiswas231@g mail.com	Mr.SHOVAN BISWAS		shovanbiswas231@g mail.com	BOTANY	Indus try perso nnel	VISVA-BHARATI UNIVERSITY
	hariswethah@gmail.c	HARISWETH A. S	6381422 286	hariswethah@gmail.c	Biochemist	try	Vivekananda college of arts and science for women Autonomous
05/02/ 2021 15:17: 33	saranyaar@gmail.com	Mrs.A.R.SAR ANYADEVI	9786268 455	saranyaar@gmail.com	BIOCHEMI	Assis tant profe ssor	SOURASHTRA COLLEGE, MADURAI
	raghavanmku@gmail.	Dr. Raghavan Kuppu		raghavanmku@gmail.	Biochemist ry	Assis tant profe ssor	Sourashtra College
05/02/ 2021 15:23:	sanjuverma06@gmail.			sanjuverma06@gmail.	Microbiolo gy	Assis tant profe ssor	VCSG UUHF Bharsar Pauri Garhwal Uttarakhand
05/02/ 2021 15:24: 38	rashms@gmail.com	Dr. Rashmi S	9886616 004	rashms@gmail.com	PG Departmen t of Botany	Assis tant profe ssor	JSS College of Arts, Commerce and Science
05/02/ 2021	vinogenes@gmail.co	Dr. S. Vinoth		vinogenes@gmail.co	Biotechnol ogy	Assis tant profe ssor	Sona College of Arts and Science

present of Blotzahlands

Department of Blotzahlands

Depar



Children's Education Society ®

#### THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629,

(Approved by AICTE, New Delhi, Accredited by NAAC, New Delhi & Affiliated to VTU, Belgaum) Website: www.theoxford.edu.

Academic year 2020 -21 (Even sem)

Report on AICTE sponsored Phase 1- Short term training program (STTP) on "Startup Driven Bioinnovation & IoT for Sustainable Agri-tech" from 23<sup>rd</sup> to 28<sup>th</sup>

August 2021



The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored one week Short term training program (STTP) - Phase 1 on "Startup Driven Bioinnovation & IoT for Sustainable Agri-tech" from 23<sup>rd</sup> to 28<sup>th</sup> August 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka, National Research Development Corporation (NRDC), Government of India, New Delhi, Bangalore Bioinnovation centre and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partners for the benefit of all the faculty members.

## Day 1: 23rd August 2021

The STTP included a formal inaugural session compered by Dr. Valarmathy K of Dept of Biotechnology, TOCE. The distinguished people in the meeting were Directors of The Oxford Educational Institutions Dr. Amarnath K, Dr. N. Malmurugan, Dr. Ravikumar K.M., Principal TOCE Dr. N. Kannan, Dr. B K Manjunath, HOD, Dept of Biotechnology, TOCE, and also Chief Guest Col. B. Venkat, Director, Faculty Development Cell, All India Council for Technical Education (AICTE), New Delhi. Guest of Honour of the occasion were Dr. Amar Prakash Garg, Vice Chancellor, Shobhit Institute of Engineering & Technology, Meerut, India, and Dr. S. R. Rao, Vice President, Sri Balaji Vidya Peeth University, Puducherry, Former Advisor, DBT, Government of India.

Session 2 began with the talk by Dr. S. R. Rao, on the topic "Emerging Technologies – Role of Bioincubators, Start-ups and Academia- industry interface". He gave a brief outline of emerging technologies
from stone age to 21<sup>st</sup> century of nanotechnology age with the biological revolution as a focus. He gave
focus on technological revolution of 21<sup>st</sup> century such as advanced materials, artificial intelligence and
machine learning, advanced robotics, 3D printing, internet of things. He focused on the emerging sciences
for discovery and high-level innovation in the last 3 decades such as Genomics and genome editing, RNA
biology, proteomics, metabolomics, Computational biology, Bio-refinaries, Artificial intelligence. He talked
about types of innovation such as Breakthrough innovation, Frugal innovation, Sustainable innovation.

Session 3 of the day was engaged by Professor Amar P. Garg on the topic "Biotechnology in 2050". He began his talk with general information on biotechnology, techniques and application. He also explained about green, red, blue, and white biotechnology. He then focused on microbial applications, products and emphasised on the necessity of innovation and startups.

### Day 2: 24th August 2021

The session 1 of day 2 was engaged by Ms. Sanskriti Pawan, Project Officer- Start-up Incubation, FITT, IIT, Delhi on the topic "Funding Programs for Startups and innovators". She explained about the support that FIIT offers the innovators. She walked through the funding programs at FIIT IITD such as BIRAC BIG, PFIZER-IITD Innovation and IP program. She gave an idea about how preliminary idea can be transformed to proof of concept development through Biotechnology Ignition Grant (BIG). Ms. Sanskriti also gave information about Technology incubation and Development of Entrepreneurs (TIDE) which provides grants of two types namely- Idea to proof concept grant and Prototype development grant. She explained in detail about many other fellowships namely iDEX- Defence India Startup Challenge, DST NIDHI SEED Support system, BIRAC Seed support, BIRAC Leap Fund, PHD Incubator Program, BIRAC SPARSH (Social entrepreneurship- Immersion and ideation), DST CAWACH (Covid call), National Entrepreneurship progms (NEAS), Sona Comstar – Safe, clean and smart mobility.

In session 2, Dr. Sundeep Sarin, Scientist G/Advisor, Department of Biotechnology, Government of India gave a talk on "Human resource development programme". He gave an overview of the department which aims at holistic development and support for students, young researchers and scientists. He gave detailed information on different fellowships namely DBT-JRF, DBT-RA, Ramalingaswami Re-entry Fellowship, BioCARe, DBT-TWAS Fellowship programme, PhD Fellowship Programme under Indo-Australian Collaboration, DBT-WT India Alliance fellowship, BRITE Awards, training such as Skill Vigyan, DBT-Biotech Industrial Training Apprenticeship Programme, Khorana Programme for scholars, teaching programme such as DBT Star College scheme, outreach program such as India Bioscience – Young Investigator Meetings and Students Workshops, CTEP program.

In session 3, Dr.C.R.Patil, Professor and Head, Institute of Organic Farming, University of Agricultural Sciences, Dharawad gave a talk on "Microbial inoculants – Requirement for the mass production of Biofertilizer". He began the session with an overview of information regarding Indian agriculture with focus on production and consumption ratio of agrochemicals. He emphasized the need of sustainability in agriculture, and also challenges such as energy crisis, labour availability, food safety. He pointed out the immense opportunities for exploiting microorganisms to be used in agriculture and industry. He then focused on all the requirements required for mass production of biofertilizers such as microbial inoculants, infrastructural requirements, skilled and trained man power, production plan.

# Day 3: 25th August 2021

The session I was engaged by B.E Rangaswamy, Registrar, Evaluation, Visvesvaraya Technological University, Belgaum talked on the topic "Dismantling Inequalities Through Assured Innovations". He focused on the importance of innovation which can help to dismantle inequalities in the society and the requirement of new national innovation policy. He explained about ASSURED Innovation Policy which stands for Affordable, Scalable, Sustainable, Universal, Rapid, Excellent, Distinctive. He rightly pointed out

that the present innovations have missed scalability and sustainability. He explained the audience that ASSURED innovations represents affordable excellence.

The session 2 was about "Agritech and IOT" by Mr.Siddaramesh V Nara, Vice President, Infosys and Agri Entrepreneur. He explained in detail about Precision Agriculture and Precision farming. He also focused on the challenges in agriculture such as low productivity, climate changes, risk of ground water depletion, key Agritech trends in India, untapped agritech opportunity – scalable interventions.

#### Day 4: 26th August 2021

The session 1 of day 4 started with Dr. Vivek Mishra, Co-Founder Director FIBROHEAL, Bengaluru who talked about "FIBROHEAL". He gave an overview of Fibroheal company which is a biotech startup working on leveraging the biomaterial property of silk proteins to develop various innovative wound management solutions catering to different stages of wound healing. He gave an overview of their product and its effectiveness and advantages. Overall, he focused on wound healing process also.

In session 2, Dr.Adarsh Natarajan, Co-founder Aindra Systems, Bengaluru gave a talk on "Artificial Intelligence" in the session 2 of day 4. He first explained the importance of artificial intelligence, and its branches and applications (healthcare, autonomous vehicles, purchase predictions, virtual assistants). Then he explained about how AI can be achieved by rule-based learning and machine learning.

The session 3 on day 4 was engaged by Dr. Lakshminarayan, Chief Buisness Development, National Research Development Corporation, New delhi, "NRDC: Transforming Innovative Research in to Profitable Technology". He briefed about NRDC and its services such as project consultancy, R & D institutions, industry, IP protection, promotional programs such as Program for Development of Technologies for Commercialization (PDTC), Program for Inspiring Inventors and Innovators (PIII). He explained about the NRDC operational model which involves technology evaluation, technology development, market survey, business development, IP filling assistance, know-how document, market intelligence. He explained in detail about the process of technology transfer and the terms and conditions for licensing technologies. He briefed about the popular technologies commercialized by NRDC such as infant food, FMD vaccine, disposable blood bag system etc.

In session 4, CoL. B. Venkat, Director, FDC, AICTE, New Delhi on the topic "NEP from higher education perspective". He talked about the dynamics of NEP 2020, and about the development of the policy from amendment. New initiatives in promotion of regional languages by NEP is Technical book writing and translation. He gave an idea of gross enrolment ratio and about how NEP helps in increasing this ratio. He emphasized on the role of NEP in creating large interaction of general and vocational education. He also focused on the establishment of National committee for integration of vocational education with the motive of integrating the vocational and general education. This committee has been mandated to form National

higher education qualification framework and National skill qualification framework. He also emphasized that the committee at each level looks after the employability parameters also according to International occupational standards.

# Day 5: 27th August 2021

The session 1 was on "Start-up to Scale-up through Innovations" by Dr.Basavaraj Giriyannavar, Managing Director, Criyagen, Bengaluru. He talked about agriculture ecosystem for start-up to scale-ups. He talked about Criyagen start-up at Texas. He also gave the audience a view of the important steps that is required to develop a product from idea which are product blueprint, product market fit, minimum viable product, validated learning or earning, scaling and innovation to achieve the market share. He also shared the innovation during scaling such as product, market, business model, strategy, management innovation.

The session 2 was taken over by Amitha Ganapathy, Senior Scientist, Criyagen who talked in detail about "Criyagen". She focused on Criyagen's belief of agriculture scientific information. She gave an idea of the different products from Criyagen such as biostimulants, bio-fertilizers, crop specific bio-fertilizers, sea weed extract, potash mobilizing bacteria, organic manure powder etc.

The session 3 of day 5 was on the topic "eSAP: an ICT system for Crop Health Management (Electronic solutions against Agricultural Pests)" by Dr. Prabhuraj A, Professor and Head, Department of Entomology, University of Agricultural Sciences, Raichur. He talked about crop health problems and also explained in detailed about eSAP workflow, main components for user management. He explained about the simple sequence of steps which can help identify problems in the field by the extension worker independently. He emphasised on the advisory given based on the intensity of the problems and also on the follow up procedures and feedback. He threw light over the expert connect options to undiagnosed situations through the expert app. He focused on other unique features of eSAP such as prescription-based farming, estimation of pest intensity, early warning, location specific management plans.

# Day 6: 28th August 2021

Dr. Bijay Kumar Sahu, Regional Manager & Head, NRDC – Intellectual Property Facilitation Centre, WIPO – Technology & Innovation Support Centre, Innovation Valley, Visakhapatnam, gave a talk on the topic "Role of IPR in Bioinnovation for Entrepreneurship" during session 1 of day 6. He talked about entrepreneurship and the elements such as recover, redesign, and response. He focused on IPR which forms the bridge between academia and industry. He also highlighted about the innovation promotion & management through academia and industries collaboration. He focused on the opportunities offered by NRDC through funding. He also talked about the GI tagged important products from Mysuru. He also

talked about the challenged faced in IPR such access, regulatory compliance, agreements etc. He finally talked the importance of integrating IP into institutions.

The session 2 of day 6 was engaged by Dr. M. S. Shashi Kumar, Scientist D, Department of Scientific and Industrial Research, Ministry of Science and Technology, New Delhi who talked on "Startups and Bio Innovations". He started his talk with brief overview of startup and benefits of companies recognized as STARTUP by Department for Promotion of Industry and Internal Trade (DPIIT) such as self-certification, tax exemption, easy winding up, IPR protection, relaxation in public procurement norms and funds. Then he focused on types of funding such as crowd funding, self-funding, venture capitalists, angel investment. He talked about PRISM scheme of DSIR, SIDBI Fund of Funds scheme, Startup India seed fund scheme, ATAL innovation mission NITI AAYOG, BIRAC – support from ideation to early stage, Students innovations for Translation & Advancement of Research Explorations, Empowering Youth for Undertaking value added innovative translational research (E-YUVA). He also briefed about technology business incubators all over the country.

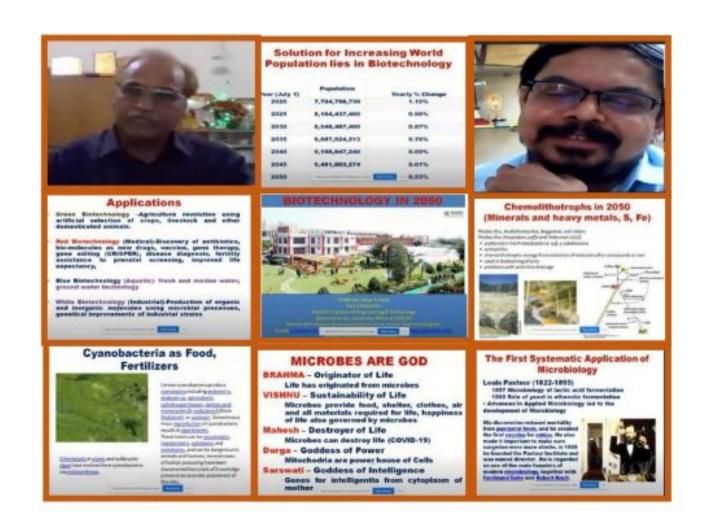
The Chief guest of the Valedictory session was Dr. Bijay Kumar Sahu, Regional Manager & Head, NRDC – Intellectual Property Facilitation Centre, WIPO – Technology & Innovation Support Centre, Innovation Valley, Visakhapatnam and Guest of Honour was Dr. M. S. Shashi Kumar, Scientist D, Department of Scientific and Industrial Research, Ministry of Science and Technology, New Delhi. Dr.B.K.Manjaunath gave a brief presentation about the details of technical talks happened during the one week STTP and the participants were overwhelmed with the STTP and they expressed their happiness during the feedback session and the event was ended with the vote of thanks by Dr. K. Valarmathy, Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

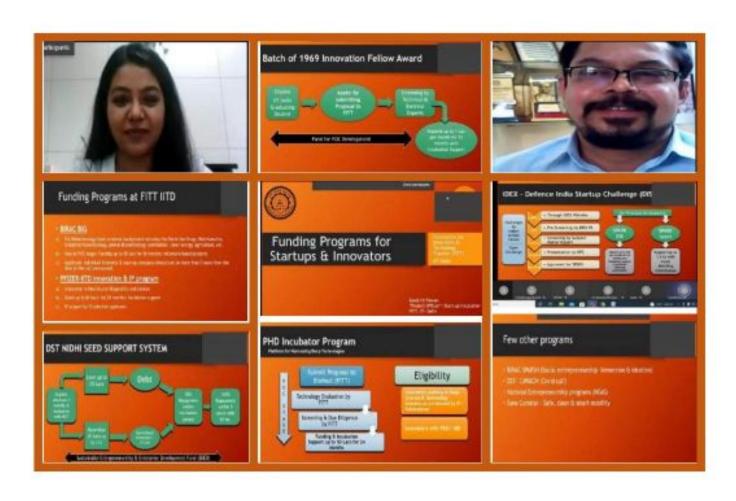
# Album of STTP event



Inauguaral function of STTP







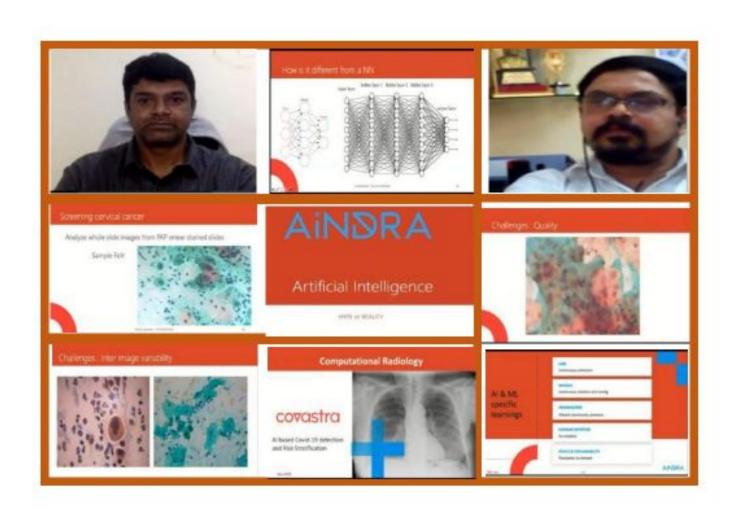




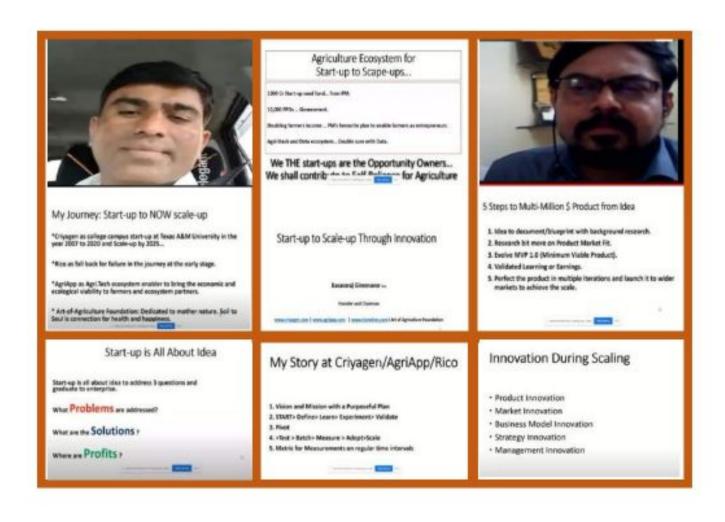




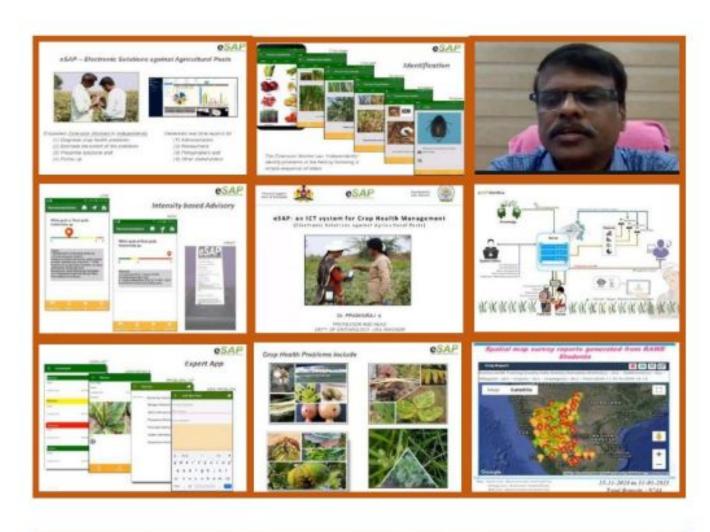












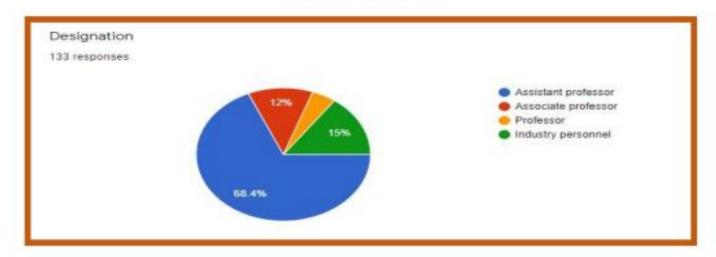


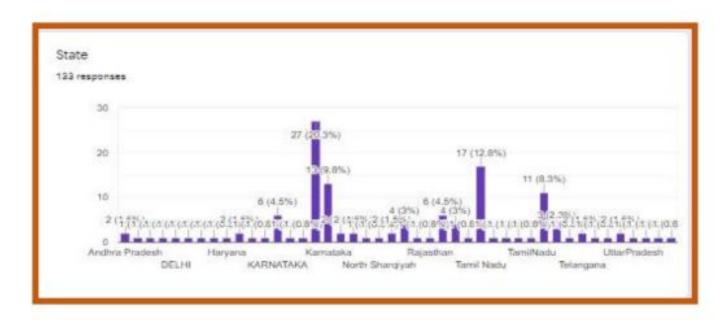


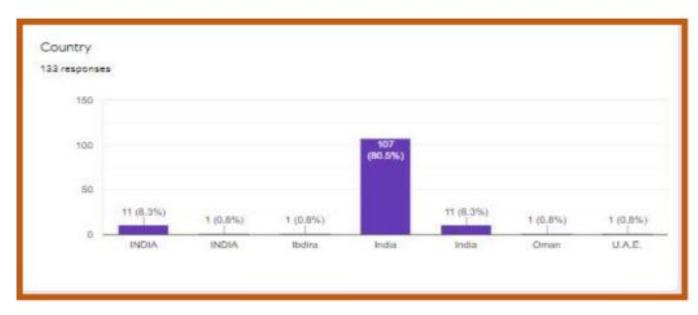


Valedictory session

#### Registration details







S.No	Name with salutation	Email Address	Department	Designation	Name of the organization
1	Ms. Shivangi	shivangiverma401 @gmail.com	Biochemistry	Industry personnel	Patna University Department of Biochemistry
2	Mr Hilal Ahmed	hilalahmed1991@ gmail.com	Zoology	Assistant professor	University of Kashmir
3	Dr. Ajitha Gomathi	aji.mku@gmail.co m	Biotechnology	Assistant professor	The Oxford college of Engineering
4	Dr. Chandrappa	chandrappacp@g mail.com	Biotechnology	Professor	Shridevi Institute of Engineering and Technology
5	Mr. Harish Venkatram Saripella	venkatramharish@ gmail.com	Risk Transformation	Industry personnel	HSBC
6	Dr. K.M. Kumar	kumar- bt@dayanandasag ar.edu	Biotechnology	Assistant professor	Dayananda Sagar College of Engineering
7	Dr.K.Suresh	sureshbioteck@ya hoo.com	Biotechnology	Assistant professor	MGR COLLEGE
8	Dr. Mahipal Singh Kesawat	mahipal.s@srisriu niversity.edu.in	Faculty of Agriculture	Assistant professor	Sri Sri University
9	Sheik Imran	sheikimran81@g mail.com	Information science and engineering	Assistant	BIET
10	Dr. M. GOMATHI	gomathi@mkjc.in	Biotechnology	Assistant professor	Marudhar Kesari Jain College for Women, Vaniyambadi
11	Mr. VISHAL MADHAN MOHAN SHARMA M	mvishal23@ymail.	Microbiology Department	Industry personnel	Kuvempu University
12	M.S.Ramaiah College of Arts Science and Commerce	pushpa_microbio @msrcasc.edu.in	Microbiology	Associate professor	M.S.Ramaiah College of Art Science and Commerce
13	Dr Rashmi K V	rashmi_biotech@s irmvit.edu	Biotechnology	Assistant professor	Sir M Visvesvaraya Institute of Technology

14	De Sheeti Mahanata	shruti.m@srisriuni	Department of Agricultural	Assistant	Sri Sri
14	Dr. Shruti Mohapatra Abhishek Kumar	versity.edu.in abhithabhi12196 @gmail.com	Department of Biotechnology	Industry personnel	University Himachal Pradesh University Summer Hill Shimla
16	Dr. A. VIJAI ANANTH	vijaicool007@gm ail.com	HORTICULTU RE	Associate professor	JSA COLLEGE OF AGRICULTU RE AND TECHNOLOG Y
17	Dr. T. Silambarasan	tamil.silambarasan @gmail.com	Microbiology	Assistant professor	School of Allied Health Sciences, Vinayaka Missions Research Foundation (DU)
18	Dr. Mandakini Kabi	mandakinikabipbg @gmail.com	Faculty of Agriculture	Assistant professor	Sri Sri University
19	Dr. N. MANICKAM	nmanickam5@gm ail.com	DEPARTMEN T OF MARINE SCIENCE	Assistant professor	BHARATHID ASAN UNIVERSITY
20	Miss Bhoomi Vinay Das	bhoomivinay01das @gmail.com	Microbiology	Assistant professor	N.B. Mehta Science and Commerce College
21	Miss. GEETA D	geethaprakashdidd igi@gmail.com	Microbiology	Industry personnel	University
22	Dr.Chaitali Mathew	chaitali190235@g mail.com	Biology	Assistant professor	SAGES, SEMRA
23	Dr Mohan Kumar S	mohanmicrobe@g mail.com	Food Science and Technology	Assistant professor	St Joseph's College Autonomous Bengaluru-27
24	Akarsh. S, Research Scholar	ambi29495@gmai l.com	Microbiology	Industry personnel	Kuvempu University
25	Dr. A. Arivoli	arivoli82@gmail.c om	Environmental science	Assistant professor	Government Art's College
26	Dr. Hemalatha. B. Kalasannavar	directormim9@g mail.com	R&D	Industry personnel	SSIPCL
27	Ms. Sneha Nayak	snehanayak@nitte. edu.in	Biotechnology Engineering	Assistant professor	NMAM institute of technology

28	Aditi	aditishivanisinghl 999@gmail.com	Biotechnology	Assistant	Meerut institute of engineering and technology
29	Mr.G.RAJKUMAR	rajkumarguna83@ gmail.com	Botany	Assistant	Government Arts College Ariyalur
30	Dr.GURUMURTHY H	gurumurthyh@gm it.ac.in	Biotechnology	Professor	GM Institute of Technology
31	Dr Rahul Swarnkar	rahulswarnkar82 @yahoo.com	Veterinary pharmacology and toxicology	Assistant professor	College of veterinary and animal science navania vallabhnagar Udaipur Rajasthan
32	Dr.H.Jemmy christy	jemmyjacob@gma il.com	Bioinformatics	Assistant professor	Sathyabama Institute of science and technology Tamil Nadu
33	Dr.	artheerajendran@ gmail.com	Agricultural Microbiology	Assistant professor	Agricultural University
34	Dr Vishakh R	vishakh.kedilaya @nitte.edu.in	Central Research Laboratory,	Assistant professor	KS Hegde Medical Academy, Nitte(Deemed to be University)
35	Dr. M.R.SUCHITRA	dietsuchitra@gmai l.com	Chemistry and biosciences	Assistant	Sastra deemed university
36	Dr Sanjeev Kumar Verma	sanjuverma06@g mail.com	Food Technology	Assistant	VCSG UUHF BHARSAR
37	Dr.N.Uma Maheswari	umasamyamf@gm ail.com	P.G and Research Department of Microbiology	Assistant professor	STET WOMEN'S COLLEGE AUTONOMO US SUNDARAKK OTTAI
38	Rajashekhara S	rajmst@gmail.co m	Chemical Engineering	Assistant professor	Siddaganga Institute Of Technology
39	Dr.Shridevi S D K	saishri28@gmail.c om	Botany	Assistant professor	Sri Sarada College for Women (Autonomous), Salem 16
40	Sukanya.A	sukanyamicro2015 @gmail.com	Biology	Industry personnel	Sanat products
41	Dr. Nirmala Devi. D	nirmaladevi1012 @gmail.com	Microbiology	Assistant professor	M.S. Ramaiah College of Arts,

		18			Science and Commerce
204.0	Wassa Unaban- una binasaska at	krmaruthi@sdmcu		Associate	SDM College
42	Dr. Maruthi K R	jire.in	Biotechnology	professor	(Autonomous)
43	Mr. BAVAJI SYED RAHMAN	bavajibavaji774@ gmail.com	CHEMISTRY	Assistant professor	JAMAL MOHAMED COLLEGE (AUTONOMO US) TIRUCHIRAP PALLI
44	Mr.K.SUDHEER	sudhir75.k@gmail .com	BOTANY	Assistant professor	NTR GDC(W),MAH ABUBNAGAR ,TELANGANA STATE
45	Sreelakshmi S	sree.narsh@gmail. com	Engineering Mathematics	Assistant professor	HKBK College Of Engineering
46	Shruthi SR	shruthi.srayapur@ gmail.com	BIOTECHNOL OGY	Assistant professor	BIET
47	Ms	manasa- bt@dayanandasag ar.edu	Biotechnology	Assistant professor	Dayananda Sagar college of Engineering
48	Dr.Jyoti S Uppar	useureka99@gmai l.com	PG Department of Botany	Associate professor	Government Science College (Auto)/Nrupatu nga University Sree
49	Dr. S.V. Ravikanth	svravikanth@gmai 1.com	Biological Sciences	Assistant professor	Vidyanikethan Degree College
50	Dr. Mamatha B Salimath	mamatha.mallik@ gmail.com	Microbiology	Assistant professor	Dayananda Sagar Institutions
51	Dr. HARISHCHANDER ANANDARAM	a_harishchander@ cb.amrita.edu	COMPUTATI ONAL ENGINEERIN G AND NETWORKIN G	Assistant professor	AMRITA VISHWA VIDYAPEETH AM, COIMBATOR E, TAMIL NADU, INDIA
52	Dr. Ujwal P.	ujwal.p@nitte.edu. in	Biotechnology engineering	Professor	NMAM Institute of Technology
53	Dr. C. Divya	divyabotany111@ gmail.com	Department of Botany	Assistant professor	Sri Kaliswari College Sivakasi

54	Dr. RAVINDRA KUMAR AGARWAL	rra01@ganpatuniv ersity.ac.in	FOOD TECHNOLOG Y, CENTER FOR HEALTH AND APPLIED SCIENCES- GANPAT UNIVERSITY	Assistant professor	GANPAT UNIVERSITY
55	Prof.	bilwashrih@gmail .com	Biotechnology	Assistant professor	BIET college
56	Mr. Amirtharaj Yesubalan	amirtharajyesubala n@gmail.com	Water and Environment	Industry personnel	WS ATKINS
57	Dr. M. Murugan	muruganbt@niuni v.com	Biomedical	Professor	Noorul Islam Centre for Higher Education
58	Dr Manjunath N S	nsm.microb1973 @gmail.com	Biotechnology	Associate professor	Bapuji institute of Engg and Technology
59	Mrs. V B Malathi	malathivb@yahoo. co.in	Microbiology	Assistant professor	Chennai National Arts and Science College
60	Mrs Devi Murugesan	devisanna@gmail. com	Bacteriology	Industry personnel	ICAR NIVEDI
61	Dr. Jackson Achankunju	achankunjujackso n@gmail.com	College of Applied & Health Sciences	Assistant professor	A'Sharqiyah University
62	Ms Louisena Vinoth Priya L	louisenapriya@gm ail.com	Life Sciences	Assistant professor	Sri Bhagawan Mahaveer Jain First Grade College
63	Dr. Rashmi S	rashms@gmail.co m	PG Department of Botany	Assistant professor	JSS College of Arts, Commerce and Science
64	Dr	swethauk_78@ya hoo.co.in	Bioinformatics	Associate professor	Sathyabama institute of science and technology
65	Shaik Rajiabegum Student	skraziabegum1995 @gmail.com	Msc. Biotechnology	Industry personnel	Rayala seema university
66	Dr Sandeep Rout	sandeeprout1988 @gmail.com	FACULTY OF AGRICULTU RE	Assistant professor	SRI SRI UNIVERSITY CUTTACK
67	Mrs A NIVEDITHA	nivedita_biotech@ sirmvit.edu	BIOTECHNOL OGY ENGINEERIN G	Associate professor	SIR M VISVESVARA YA INSTITUTE OF

					TECHNOLOG Y, BENGALURU
68	Dr. Ramneet Kaur	ramneetkaur@rimt	Life sciences	Assistant professor	RIMT University Mandi Gobindgarh Punjab
69	Dr. ULLAL HARSHINI DEVI	ullalharshini@nitt e.edu.in	Biotechnology	Assistant professor	NMAMIT
70	Dr.B.Nazeema Banu	nazeema2020@g mail.com	Biotechnology	Assistant professor	Periyar Maniammai Institute of Science and Technology
71	E.SRI AKSHAYA	esriakshaya@gmai l.com	FOOD TECHNOLOG Y	Assistant professor	SNS COLLEGE OF TECHNOLOG Y
72	Dr. V. Sridevi	sridevi.indira@gm ail.com	Biological Sciences	Assistant professor	Sree Vidyanikethan Degree College
73	Dr. S. Vinoth	vinogenes@gmail.	Biotechnology	Assistant professor	Sona College of Arts and Science, Salem
74	Dr D RAJA SUDHAKAR	d.rajasudhakar85 @gmail.com	BIOINFORMA TICS	Assistant professor	BISHOP HEBER COLLEGE (AUTONOMO US)
75	Dr. P. Sampathkumar	pskumar16@yaho o.com	Chemistry & Biosciences	Assistant professor	SASTRA Deemed University
76	Mr. Prajjal Dey	prajjal.d@srisriuni versity.edu.in	CROP PHYSIOLOGY	Assistant professor	SRI SRI UNIVERSITY
77	Dr. D. Leena Lavanya	leena.draviam.chri sty@gmail.com	Botany	Assistant professor	Avinashilingam Institute for Home Science and Higher Education for Women
78	Mr. Rakesh N R	rakeshnr@gmit.ac. in	Department of Biotechnology	Assistant professor	GM Institute of Technology, Davanagere
79	Dr.A.Parameswari	parameswari_micr o@krcollege.net	Microbiology	Assistant professor	K.R.COLLEG E OF ARTS AND SCIENCE

80	DR.DINESH KUMAR	dinesh.kumar@sh obhituniversity.ac. in	biotechnology	Assistant professor	shobhit deemed university
81	Dr Guru Prasad Muppala	guru.biotech@gm ail.com	Biosciences	Associate professor	Sree vidyanikethan college
82	DR.	drtamizhselvang@ nitte.edu.in	CENTRAL RESEARCH LABORATOR Y	Assistant professor	K.S. HEGDE MEDICAL ACADEMY, NITTE (DEEMED TO BE UNIVERSITY)
	Dr. Rashmi	chrashmiucs@gm		Assistant	Tumkur University,Tum
83	Hosamani	ail.com	Microbiology	professor	kur
84	Dr.P.Brindha Devi	hodb.techbiotech @velsuniv.ac.in	Bioengineering	Associate professor	Vels Institute of Science, Technology and Advanced Studies
85	Dr. Mahesh N	magi.mbbt@gmail .com	chemistry & Biosciences	Assistant professor	SASTRA Deemed University, Kumbakonam
86	Chethan A J	ajchethan1987@g mail.com	Quality Assurance	Industry personnel	LV Prasad Eye Institute
87	Mrs Santhi prajin	anshe2014@gmail .com	Biotechnology	Assistant professor	Udaya Engineering College
88	Dr. Santhosh Poojary	santhoshnellikatte @nitte.edu.in	Biotechnology Engineering	Assistant professor	NMAM Institute of Technology- Nitte
89	Dr Avitha K M	dravikm@gmail.c	P G. Department of Botany	Assistant professor	BVVS Akkamahadevi Women's Arts Science and Commerce college
90	Dr Shobha G	shobhag@sapthagi ri.edu.in	Biotechnology	Assistant professor	Sapthagiri College of Engineering
91	Dr Soumya C	sowmyac@saptha giri.edu.in	Biotechnology	Assistant professor	Sapthagiri College of Engineering
92	Dr. Jayashree D.R.	jayashreedr2012@ gmail.com	Biotechnology/ Genetics	Associate professor	M.S.Ramaiah College of Arts, Science and Commerce
93	Mr. Rushikesh Rajendra Sankpal	prof.sankpal@gma il.com	Microbiology	Assistant professor	Sinhgad College of Science, Pune

94	Mrs. MAMATHA J	mamatha.raj.oxfor dbt@gmail.com	Biotechnology	Associate professor	The Oxford College of Science
95	Dr. M.Masilamani Selvam	masilamani.biotec h@sathyabama.ac. in	Biotechnology	Associate professor	Sathyabama Institute of Science and Technology
96	Mrs R. Ushasri	rushasri@gmail.co m	Microbiology	Assistant professor	Ahmed Sayeed college for Women
97	Dr.K.Lingaraju	lingaraju.k1990@ gmail.com	DOSR in Microbiology and Biotechnology	Assistant professor	TUMKUR UNIVERSITY
98	Dr. Gayathri. P	gpinmb@gmail.co m	Microbiology	Assistant professor	Hindustan College of Arts & Science
99	Dr. S. ILLANJIAM	illanjiam@gmail.c om	Microbiology	Associate professor	Hindustan College of Arts &Science
100	Dr. V. GURU	microguru82@gm ail.com	Microbiology	Assistant professor	Tagore college of arts and science
101	Dr. Ravi kumar Gupta	rkgupta08@gmail. com	Qc	Industry personnel	Indovax pvt ltd
102	Dr N.MANOHARAN	biomano21@gmai l.com	MARINE SCIENCES	Associate professor	Bharathidasan university'
103	Ashvika Pathania	ashvika987@gmai l.com	Department of zoology	Assistant professor	Sri Sai University Palampur
104	Gowtham.R	gowthamrkumar75 0@gmail.com	Biotechnology	Industry personnel	Dr. NGP College of arts and sciences autonomous
105	Mr Aneesh kumar	aneeshsharma86@ gmail.com	Zoology	Assistant professor	Sri Sai University Palampur Himachal Pradesh
106	Shabeena Anjum KS	shabeenaks@gmai 1.com	MicrobIology	Assistant professor	Tumkur university
107	Ms.Jyoti B. Marigoudar	jyotimarigoudar@ gmail.com	Botany	Assistant professor	St Joseph's College
108	DR. NAOREM SARITA DEVI	naoremsarita2013 @gmail.com	Environmental Science	Assistant professor	DHANAMAN URI UNIVERSITY
109	Dr.S.SHEIKABDUL LA	sheiklaahif@gmail .com	CHEMISTRY AND BIOSCIENCE	Assistant professor	SRC,SASTRA DEEMED UNIVERSITY

			S		KUMBAKON AM
110	Dr. S. Bhuvaneswari	bhunz2010@gmai l.com	Chemistry and Biosciences	Assistant professor	SASTRA DEEMED UNIVERSITY SRC, KUMBAKON AM
111	Dr ARUN P	arunbiotech2000 @gmail.com	Biotechnology	Associate professor	Dr. N.G.P. Arts and Science College (Autonomous)
112	Prof. Ganesh G. Tilve	ganeshgtilve@gmi t.ac.in	Biotechnology	Assistant professor	G M Institute of Technology, Davangere
113	Dr.Nayomi John	nayomijohn10@g mail.com	Microbiology	Assistant professor	Mar Athanasius College (Autonomous), Kothamangala m, Kerala
114	Dr.R.Vidhyalakshmi	mail.vidhyalaksh mi@gmail.com	Microbiology	Assistant professor	Dr.MGR Janaki College
115	Dr. P. Sumithira	sumithirarajkumar @mgrjanaki.ac.in	Microbiology	Assistant professor	Dr. MGRJanaki College of Arts and Science for women Chennai 28
116	Ms. Mahamedha Deorari	medha.deorari143 @gmail.com	Uttaranchal Institute of Pharmaceutical Sciences	Assistant professor	Uttaranchal University
117	Mr. Prateek Paul	meprateekpaul@g mail.com	Computational Biology and Bioinformatics	Associate professor	Sam Higginbottom University of Agriculture, Technology and Sciences
118	Naveen Pakalapati	pakalapatinaveen2 @gmail.com	Stem Cell	Industry personnel	L V Prasad Eye Institute
119	Mrs N.Vasugi	vasugi.jayavel197 9@gmail.com	Biochemistry	Assistant professor	Chennai National Arts And Science College
120	Dr. Mahipal Singh Kesawat	mahipal.s@srisriu niversity.edu.in	Faculty of Agriculture	Assistant professor	Faculty of Agriculture, Sr i Sri University
121	Dr. Veena Sunil More	veenasmore@gma il.com	Biotechnology	Professor	Sapthagiri College of Engineering

122	Dr.Juby T.R	jubyashik@gmail. com	Microbiology	Assistant professor	Sree Narayana Guru College
123	Dr.R.Renuka	renukasaravanan l 1@gmail.com	Biochemistry	Assistant professor	SASTRA Deemed to be University
124	Mr. VASUDEVA NAYAKA K B L	vasudevnayaka@y ahoo.co.in	Biotechnology	Assistant professor	Bapuji Institute of Engineering & Technology, Davangere
125	C S Sumathi	sumathisamiappan @gmail.com	Chemistry and Biosciences	Assistant professor	SRC, SASTRA deemed to be University
126	Ms. ASHA INBANATHAN	ashainb2019@gm ail.com	School of Life Sciences	Industry personnel	Manipal Academy of Higher Education, Dubai Campus
127	Kavya M V	kavyamv@saptha giri.edu.in	Biotechnology	Assistant professor	Sapthagiri College Of Engineering
128	Dr.S.Balakumar	balakumarmicro@ gmail.com	Chemistry and Biosciences	Assistant professor	SRC, SASTRA University
129	Dr Anup Ghosal	aghosal5678@gm ail.com	Food and nutrition	Professor	Prabhu Jagatbandhu College



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechatronics Engineering

FROM Head Of The Department Department of Mechatronics Engineering The Oxford College of Engineering Bangalore – 560068

To, The Principal, GTTC, Bangalore. Respected Sir/Madam,

Sub: Permission for pursuing Internship Program.

AHMED A G	10X17MT011
UDAY KUMAR K	10X17MT027

With the reference to above the following 8th semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

We request you to permit them to do the internship in your organization.

HOD MT

#### Brief Report: ABOUT THE COMPANY

INTRODUCTION: gttcwasestablishedin1972atbangalorewiththeparticipationofthekarnataka state government, in collaboration with the government of Denmark under the bilateral development cooperation agreement. The excellent performance of GTTC Bangalore, proactive government of Karnataka which saw the need for expansion, got second unit of gttc started in1992 with DANID assistance.

Proliferation of technology for development of the industries with supply of skilled manpower is the key to meet the needs of the global requirement, with this government of Karnataka encouraged GTTC To start 10 more sub-centres to train in the area of tool and die making in various parts of Karnataka. GTTC is an autonomous society, and a recognized scientific and research organization by the government of India. Govt. Tool room and training centre (gttc), is serving industry by way of precision tooling and providing in well trained craftsmen the area of too land die making.

Today, the GTTC have acquired mastery in mould and die making technology and have blossomed into an epitome of precision and quality in the development and manufacture of sophisticated moulds, dies and tools. Fully aware of the rapid advancement in technology the world over, the gttc is periodically adding new technologies to the existing set of advanced equipment like CAD / CAM, CNC machines for tooling, precision components, laser for industries, rapid prototyping, vacuum casting etc. GTTC is concentrating on the integrated development of the related segments of industries by way of providing international quality tools, trained personnel and consultancy in tooling and related areas. In future, the focus would be more on turnkey projects in tooling, aero space components & their assemblies, and also to support the development of small and medium scale enterprises.

#### OUTCOMES OF INTERNSHIP

As a part of the internship at GTTC, Students have obtained an overall skill set which are listed below. SKILLS LEARNT: During the tenure of 4 weeks of internship at GTTC, The students have been exposed to industry level functioning on different industrial automation design systems.

Skills learnt are as follows:

- ◆Understanding of an industrial problem statement.
- ♠Executing the design procedures.
- ◆Hands-on working with industrial components.
- Understanding of design limitations.
- Hardware execution challenges.
- ◆Team work and coordination.
- Effective communication.





#### ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ Govt. Tool Room & Training Centre

(An Indo - Danish Project )
Rejejineper Industrial Estate Bangalore - 560 010, INDIA

#### LETTER OF INTERNSHIP

Date: 20/04/2021

The Head of the Department, The Oxford College of Engineering 10th milestone, Hosur Rd. Bommanahalli, Bengaluru - 560068

Respected Sir/Madam,

Subject: Students Internship confirmation regd.

Government Tool Room and Training Centre is pleased to inform you that Mr.Ahmed Adeel Gazali [ USN NO. 10X17MT002], student of final year, Mechatronics Engineering branch of your institution was admitted for internship with us and he was offered internship in the domain of "BASICS OF PLC AND MECHATRONICS "and the training program was scheduled from 15th March 2021. to 14" April 2021.

The student was facilitated to work as an Intern Trainee of our company for the duration of 4 weeks under the guidance and supervision of Mr. Anil Gowda. internship completion certificate has been issued to him based on his regular attendance and performance.

Best Regards,

Govt. Tool Room & Training Contra Responsible Industrial Education Basignore-540 010

Establishment Authorized Signatory

TRAINING IN TOOLING, CADICAM, ELECTRONICS ETC. SPECIALISED IN PLASTIC MOULDING TOOLS, PRESS TOOLS, DIECASTING TOOLS & PRECISION COMPONENTS, RAD IN TOOLING, MACHINING PROCESSES & RAPID PROTOTYPING THE 22152118, 23152119, 23152119, 23152149, Fav. \$1.080-23301883 Wassite www.kenature.gov/rypin. Grant. G.T.T.C.

A Scientific & Industrial Research Organisation recognised by Govt. of India.

Scanned with CamScanner



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechatronics Engineering

FROM Head Of The Department Department of Mechatronics Engineering The Oxford College of Engineering Bangalore – 560068

To,
The Director,
KGTTI,
Bangalore.
Respected Sir/Madam,

Sub: Permission for pursuing Internship Program.

THRILOK V	10X17MT411
DEEKSHITH G S	10X17MT013
MURULIKRISHNA N	10X17MT025
CHETHAN M	10X17MT011
NIKIL S K R	10X17MT027
BHARATH KU L	10X17MT009
DARSHAN K N	10X17MT012
VIJAYALAKSHMI S	10X17MT039
P SAM C	10X17MT028
JEEVITHA S	10X17MT016
SHREYA B G	10X17MT035
JEEVA A	1OX18MT404
MONISH P A	10X17MT023
AMAN RAJ	10X17MT007
NIRANJAN S	1OX18MT407

With the reference to above the following 8th semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

We request you to permit them to do the internship in your organization.

HOD MT

#### Brief Report: ABOUT THE COMPANY

INTRODUCTION: In Karnataka German Technical Training Institute (KGTTI) is established by Karnataka German Multi Skill Development Centre (KGMSDC) society. The primary mission of the Training Centre is to conduct a broad based multidisciplinary vocational training in various Industrial Technical Fields, directed towards the development of skills and trades and to become a world class training centre that represents specialized trade training programs in alignment with the Industry requirements across the globe. Sister institutes are set up at Bangalore, Belgaum, Gulbarga and Hubli. KGMSDC This KGMSDC society is recognized by Government of India and Government of Karnataka with technical support of German International Services (GIZ-IS). KGMSDC is a registered society formed under Society Registration Act 1960. The registered society has members from Government of India and Government of Karnataka, complemented by local stakeholders and representatives of industries, chambers and academia.

MISSION: KGMSDCs will generate high quality skilled manpower in close association with the industry, while operating with operational flexibility and striving financial self-sustainability.

VISION: To develop KGMSDCs as world class training centres that offer specialized skills training programs in alignment with the Industry requirements in Karnataka and beyond.

#### STRENGTH

Focus on Technology based services. State-of the art training labs and equipment's.

Qualified, Experienced Professionals / Experts. Networking with expert organizations of national and international repute. Handling of prestigious Job works for Aeronautical Development Agency. Dynamic work culture, professional staff, emphasis on result orientation and thrust on client satisfaction. Partners in representation CISCO(as authorized academy)constant.

#### OUTCOMES OF INTERNSHIP

As a part of the internship at KGTTI I have obtained an overall skill set which are listed below.

SKILLS LEARNT: During the tenure of 4 weeks of internship at KGTTI, The students have been exposed to industry level functioning on different industrial automation design systems.

Skills learnt are as follows:

- Understanding of an industrial problem statement.
- Executing the design procedures.
- ♣Hands-on working with industrial components.
- ◆Understanding of design limitations.
- Hardware execution challenges
- Team work and coordination.
- ◆Effective communication.



Date: 08-64-2021

#### To Whom So Ever It May Concern

This is to Certify that AMAN RAJ USN (10X17MT007) the student of 7<sup>th</sup> Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8<sup>th</sup> May 2021 to 8<sup>th</sup> Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. R. Shine Din

EXECUTENCE IMMOROR PRINTS

RAMMAPARIA CERMAN FECHNICAL I MAINING INTELLITETE ESPECIALISM AND RESPONDENCE OF PROPERTY AND ADMINISTRATION OF THE PROPERTY O







Date: 08-04-2021

#### To Whom So Ever It May Concern

This is to Certify that BHARATH KUMAR L USN (IOXI7MT009) the student of 7° Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwest the Internship Training Program on Industrial Automation - Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute). Bengaluru from 8° Mar 2021 to 8° Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. Amil Am

\* C \* L L E M C E T H B G U G H S E L L S

RMATAKA GERMAN IEGINISTAL TRAINING HISTITUTE Ing Kong Manan, nagasanaka, Maganaska Hasar, Bengalani, I 100/173 KGTTI.COM

-

Date: 00-04-2021

#### To Whom So Ever It May Concern

This is to Certify that CHETHAN M USN (10X17MT011) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTT1 (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





CR Amil Director

EXCELLENCE THROUGH SKILLS

EARTHATARA GERMAN TECHNICAL TRANSMIC INSTITUTE Beford Varios Matain, Nagamenton, Mariar all'a Magaritation del 8 (A) (B)

KGTTI.COM

Scanned by CamScanner

Scanned with CamScanner







Date: 00-04-2021

#### To Whom So Ever It May Concern

This is to Certify that JEEVA A USN (10X18MT404) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. E Shoul plin

RESELENCE THEOUGH SKILLS

CARMATANA GERMANA HECHONICAL TRAINICES INSTITUTE Intima Kinna Minasa, Nigaranana Maryanatra Nigar, Bengahara, Sebista Manar 180 2014/213 - Ernak Armenda Angala, Maryanara KGTTI.COM

Scanned by CamScanne

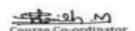


Date: 08-04-2921

#### To Whom So Ever It May Concern

This is to Certify that JEEVITH S USN (10X17MT016) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





E Amiladia

EXCELLENCE THROUGH SKILLS

KGTTI.COM

KARMATAKA GERMAN TECHNICAL TRAMING HISTITUTE Borond Karme Metall, Negeri ita, Marjarashe Tiliper, Betisi







Date: 08-04-2021

#### To Whom So Ever It May Concern

This is to Certify that DARSHAN K N USN (10X17MT012) the student of 7° Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internable Training Program on Industrial Automation - Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8° Mar 2021 to 8° Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





CR Sharel plus

EXCELLENCE THROUGH EXILLS

KGTTLCOM

PARMATARA SERVIÇAS PROPERTA PRACTICAS INSTITUTE

E 100 01



Date: 000-014-2075

#### To Whom So Ever It May Concern

This is to Certify that MONISH PRAKASH A USN (10X17MT023) the student of 7° Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation - Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8° Mar 2021 to 8° Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. R. Gridge

RESELVENCE THROUGH SKILLS

KARMATAKA GERSAAN FEETINGEA, TRANSING GIETITUTE Reford Konna Marain, Hagasandra, Marianatha Hogar, Dingabou - Militif E





Date: 08-04-2021

#### To Whom So Ever It May Concern

This is to Certify that MURULIKRISHNA N USN (10X17MT025) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C.R. Amil Nan

EXCEPTENCE IMBORON SELLE

KGTTLCOM



Date: 99-94-202

#### To Whom So Ever It May Concern

This is to Certify that NIRHIL SEINIVAS K B USN (20X17MT027) the studeot of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwort the Internable Training Program on Industrial Automation - Pneumatic and Hydraulic at KGTTI (Karnataka Germon Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the less for his future and execute.





C. R. Amelyalia

\*\*C#4.5##C# THROUGH BE:LL#

MARPINEACA COMMAND TO FROM A PRAIRIES HAS THAT THE SMALL COMMAND AND A PROPERTY OF THE PROPERTY OF THE PARTY OF THE PARTY

Scanned with CamScanner



Date: 08-04-2021

#### To Whom So Ever It May Concern

This is to Certify that NIRANJAN S USN (10X18MT407) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from Bth Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. R. Sharel plan

EXCELLENCE THROUGH SKILLS

KGTTI.COM

KARMATAKA GERMAN PEKAPUKAN TRANSPOS PERTITUTE Spring Ranna Matah, Pingarandra, Marjaradka Hager, Sengatura St E 40 00



Date: 08-84-2021

#### To Whom So Ever It May Concern

This is to Certify that SHREYA BIRADAR G USN (10X17MT025) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Kornataka German Technical Training Institute), Bengaluru from Bth Mar 2021 to 8th Apr 2021.

Her association with us was very fruitful & we wish her all the best for her future endeavours.





Director

EXCELLENCE THROUGH SKILLS

KGTTI.COM

KARRAZAKA GERMAN TECHTHICAL I BARRING HETTUTE British Server Materia, Prepara myra, sharpa salaha begar Server Barring Server Materia, Prepara myra, sharpa salaha begar Server E 1900

Date: 08-04-2021

#### To Whom So Ever It May Concern

This is to Certify that THRILOK V USN (10X18MT411) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internship Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

His association with us was very fruitful & we wish him all the best for his future endeavours.





C. E. Shirl pain

EXCELLENCE THEOUGH SKILLS

MARMATAINA GERMANI TECHNICAL TRANSING INSTITUTE Behins Benis Beton, Preparation, Margaristic Frequi, Bengat, Sergelary - 1600075.



KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE



Date: 00-04-2021

#### To Whom So Ever It May Concern

This is to Certify that VIJAYALAKSHMI S USN (10X17MT042) the student of 7th Semester B.E. Mechatronics Engineering from The Oxford College of Engineering, Bengaluru underwent the Internable Training Program on Industrial Automation – Pneumatic and Hydraulic at KGTTI (Karnataka German Technical Training Institute), Bengaluru from 8th Mar 2021 to 8th Apr 2021.

Her association with us was very fruitful & we wish her all the best for her future endeavours.





ce Amelodin

EXCELLENCE THROUGH SKILLS

KGTTI.COM

MARKENTARIA GERMANIA PRINSPIO AL VRAINIME PETTEUTE Markeld Revina Markey (depote des l'Angles des l'Aspet (1924) de l'Aspet (1924)

E -



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechatronics Engineering

FROM Head Of The Department Department of Mechatronics Engineering The Oxford College of Engineering Bangalore – 560068

To, The Managing Director, VI Solutions, Bengaluru. Respected Sir/Madam,

Sub: Permission for pursuing Internship Program.

K VISHNU	10X17MT017
KIRAN S	10X17MT018
KISHORE S	10X17MT019
MUNNAKUMAR P	10X17MT024
SANJAY J	10X17MT032
SANJAY R	10X17MT033
VIJAY D	10X17MT041
VISHNU M T S	10X17MT045
VISHNU S KUMAR	10X17MT046
AKANKSHA V R	10X16MT003
OMKAR Z	1OX18MT408
PRAVEEN S S	1OX18MT409
BHAT N R	10X16MT008
JAYANTH C	10X16MT016
BHANUSHRE	10X15MT008

With the reference to above the following 8th semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

We request you to permit them to do the internship in your organization.

Department of Machatrans
The Oxford College Of Engineer
Borenwayters Respective Allers

HOD MT

#### Brief Report: ABOUT THE COMPANY

VI Solutions is a company specialized in pioneer engineering and providing Systems, Solutions and Products for a wide range of industries and applications. Headquartered in Bangalore, India, VI Solutions was founded by a pool of live wire professionals having several years of combined technical and corporate expertise in providing high quality, cost-effective and complete end-to-end solutions to its valued customers. All our team members are highly qualified in their respective fields and have years of industrial experience behind them.

VI Solutions is specialized in the design and realization of turnkey machines and tools. As an engineering company, we are known for our expertise in automated assembly lines, process automation, data acquisition and visual inspection. VI Solutions is one of the leading companies.

in building Advanced Communication Systems, Real Time Embedded Systems and other Industrial Automation services for applications in the Department of Defense, Aerospace and Educational Institutions

VI Solutions was started with the aim of always staying at the cutting-edge of automation technology and thereby providing the most appropriate technology for every automation application. VI Solutions is focused on becoming a leader in the development of test and measurement and industrial automation software and systems.

#### OUTCOMES OF INTERNSHIP

As a part of the internship at VI Solutions have obtained an overall skill set which are listed below.

SKILLS LEARNT: During the tenure of 4 weeks of internship at VI Solutions, The students have been exposed to industry level functioning on different industrial automation design systems.

#### Skills learnt are as follows:

- To use LabVIEW for day to day activities and data flow execution.
- Build a simple data acquisition application.
- Create a subroutine in LabVIEW.
- Understand the component of virtual instrumentation.
- Introduce the functions used in LabVIEW.

 Communicating with hardware like data acquisition, vision, and motion controlled devices.







### CERTIFICATE OF COMPLETION

INTERNSHIP

We present this certificate to

#### KISHORE.S

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 10th-May-2021 to 11th-June-2021

> Managing Director VI Solutions, Bangalore



## CERTIFICATE OF COMPLETION OF INTERNSHIP

We present this certificate to

#### MUNNA KUMAR PANDIT

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sonal Kumar V Managing Director VI Solutions, Bangalore



### CERTIFICATE OF COMPLETION

INTERNSHIP

We present this certificate to

#### SANJAY J

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sunil Kumar V Managing Director VI Solutions, Bangalor



### CERTIFICATE OF COMPLETION

INTERNSHIP

We present this certificate to

#### SANJAY R

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sund Kumar V Managing Director



### CERTIFICATE OF COMPLETION of INTERNSHIP

We present this certificate to

#### VIJAY D

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sunil Kumar V Managing Director VI Solutions, Bangalon





## CERTIFICATE OF COMPLETION OF INTERNSHIP

We present this certificate to

#### VISHNU S KUMAR

In appreciation for your successful work as intern at VI Solutions, Bangalore, From <u>30-November-2020</u> to <u>05-January-2021</u>

> Mr. Sunil Kumar V Managing Director VI Solutions, Bangalon



### CERTIFICATE OF COMPLETION OF INTERNSHIP

We present this certificate to

#### AKANKSHA V REDDY

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sumil Kumar V Managing Director VI Solutions, Bangalore



Mr. Sunil Kumar V Managing Director VI Solutions, Bangalore



## CERTIFICATE OF COMPLETION of INTERNSHIP

We present this certificate to

#### PRAVEEN KUMAR SALIMATH

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 05-October-2020 to 11-November-2020

> Mr. Sunil Kumar V Managing Director VI Solutions, Bangalore



#### CERTIFICATE OF COMPLETION

INTERNSHIP

We present this certificate to

#### BHAT NIRANJAN RAMAKRISHNA

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 30-November-2020 to 05-January-2021

> Mr. Sunil Kumar V Managing Director VI Solutions, Bangalore



# CERTIFICATE OF COMPLETION OF INTERNSHIP

We present this certificate to

### BHANUSHREE O

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 14th-June-2021 to 16th-July-2021

Mr. Sund Kumar V Managing Director VI Solutions, Bangalore



## CERTIFICATE OF COMPLETION

INTERNSHIP

We present this certificate to

### JAYANTH C

In appreciation for your successful work as intern at VI Solutions, Bangalore,
From <u>05-October-2020</u> to <u>11-November-2020</u>

Mr Sund Kumar V Managing Director VI Solutions, Bangalore

PFLINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru 560 068