

### 3.5.1 Activities under MoU for the Year 2019-2020

<b>Sr. No.</b>	<b>Name of the MoU / Collaboration / linkage</b>	<b>List of Activities under the MoU</b>	<b>Page No.</b>
1	TCS	Faculty participation in FDP at TCS, Thane	<a href="#"><u>2</u></a>
2	Conbuss Online Manufacturing	Department advisory board member	<a href="#"><u>5</u></a>
3	Conbuss Online Manufacturing	Internship	<a href="#"><u>8</u></a>
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5	Christiani Sharpline	One week Student Development Program	<a href="#"><u>13</u></a>
6	Cloud Counselage	Internship	<a href="#"><u>14</u></a>
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pshah CRCE &lt;pshah@fragnel.edu.in&gt;

## Fwd: Nominations for One Day Faculty Development Programme @ TCS Thane Campus - 19th August 2019

1 message

**TPO - Fr. CRCE, Bandra** <tpo@fragnel.edu.in>  
To: pshah CRCE <pshah@fragnel.edu.in>

Wed, Nov 23, 2022 at 10:33 AM

Greetings from Fr. Agnel's C.R. College of Engineering, Bandra.

Mahesh Sharma

**Fr. Agnel's** C.Rodrigues College of Engineering,  
Fr. Agnel Ashram, Bandstand, Bandra(W), Mumbai -400050  
L : +91-22-67114102 | M : 9969813735 | mail: [tpo@fragnel.edu.in](mailto:tpo@fragnel.edu.in) | [www.fragnel.edu.in](http://www.fragnel.edu.in)



----- Forwarded message -----

From: **TPO - Fr. CRCE, Bandra** <tpo@fragnel.edu.in>

Date: Tue, Aug 6, 2019 at 10:38 AM

Subject: Re: Nominations for One Day Faculty Development Programme @ TCS Thane Campus - 19th August 2019

To: Gaurav Ghelani <[gaurav.ghelani@tcs.com](mailto:gaurav.ghelani@tcs.com)>Cc: Nilesh M.Patil CRCE <[nilesh.patil@fragnel.edu.in](mailto:nilesh.patil@fragnel.edu.in)>, <[sunil\\_chaudhari@fragnel.edu.in](mailto:sunil_chaudhari@fragnel.edu.in)>, Jayen Modi Fr. CRCE <[jayen.Modi@fragnel.edu.in](mailto:jayen.Modi@fragnel.edu.in)>, <[anant.tarase@fragnel.edu.in](mailto:anant.tarase@fragnel.edu.in)>, srija CRCE <[srija@fragnel.edu.in](mailto:srija@fragnel.edu.in)>

Greetings from Fr. Agnel's C.R. College of Engineering, Bandra.

Sir,

Regrets for the delayed response.

Following faculty will be participating in the FDP.

Sr No	Institute Name	Faculty Name	Faculty Mobile Number	Faculty Email Address	Stream / Specialization
1	Fr. C. Rodrigues College of Engg.	Nilesh Patil	7350791320	<a href="mailto:nilesh.patil@fragnel.edu.in">nilesh.patil@fragnel.edu.in</a>	Information Tech.
2	Fr. C. Rodrigues College of Engg.	Sunil Chaudhary	9987112768	<a href="mailto:sunil_chaudhari@fragnel.edu.in">sunil_chaudhari@fragnel.edu.in</a>	Computer Science
3	Fr. C. Rodrigues College of Engg.	Jayen Modi	9930314033	<a href="mailto:jayen.Modi@fragnel.edu.in">jayen.Modi@fragnel.edu.in</a>	Electronics Engg.
4	Fr. C. Rodrigues College of Engg.	Ananth Tarse	9702278448	<a href="mailto:anant.tarase@fragnel.edu.in">anant.tarase@fragnel.edu.in</a>	Production Engg.

Pl. let us know if you require any other details.

Thanking you  
with regards  
mahesh

Mahesh Sharma  
**Fr. Agnel's** C.Rodrigues College of Engineering,

Fr. Agnel Ashram, Bandstand, Bandra(W),  
Mumbai -400050  
L : +91-22-67114102 | M : 9969813735 | mail: [tpo@fragnel.edu.in](mailto:tpo@fragnel.edu.in) | [www.fragnel.edu.in](http://www.fragnel.edu.in)  
logo

On Mon, Aug 5, 2019 at 2:14 PM Gaurav Ghelani <[gaurav.ghelani@tcs.com](mailto:gaurav.ghelani@tcs.com)> wrote:

Dear All

Just a gentle reminder to share the details.

Please ignore this request if you have already shared the details.

Thanks & Regards

Gaurav Ghelani  
Academic Relationship Manager - India West  
Tata Consultancy Services  
Phone : 91 22 677 82295  
Buzz : 422 2295  
Cell : +91 98211 79368  
Email : [gaurav.ghelani@tcs.com](mailto:gaurav.ghelani@tcs.com)  
Website : <http://www.tcs.com>

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From: Gaurav Ghelani/MUM/TCS  
To:  
Date: 02-08-2019 11:19  
Subject: #personal# Nominations for One Day Faculty Development Programme @ TCS Thane Campus - 19th August 2019

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Dear Sir / Madam

Greetings from Tata Consultancy Services Ltd.

This email is with regards to **One Day Faculty Development Programme** scheduled at **TCS Yantra Park, Thane Office** on **Monday 19th August 2019 9am to 5.30pm**

We would request you to nominate **5 Faculties** (From Any Stream / Specialization) from your Institute to attend the aforementioned Faculty Development Programme on 19th August at TCS Thane Office from 9am to 5.30pm. **Please share the nominations in below mentioned format by Tuesday, 6th August 6pm IST.**

Sr No	Institute Name	Faculty Name	Faculty Mobile Number	Faculty Email Address	Stream / Specialization
1					
2					
3					
4					
5					

As of now, following sessions have been planned. However there might be slight variation in this schedule depending on the expert availability.

1. Session on Experiential Learning and how it can be integrated into Curriculum.
2. Session on Importance of Automation in IT Sector.
3. Session on SAP as an ERP & also on SAP HANA - In Memory Relational Database Management System.
4. Session on Ethics in Academia & Business - Activity Oriented Workshop

Faculties will be felicitated with TCS FDP Completion Certificate at the end of the session.

*Tea/Coffee & Lunch arrangement will be taken care by TCS.*

Hoping for a positive and energetic response from your side. I am sure that Faculties will enjoy this programme with lot of Take Aways.

Happy Learning.

**TCS Yantra Park Address - Tata Consultancy Services Ltd, Unit No 6, Yantra Park, Voltas Compound, Pokhran Road 2, Thane West, Thane - 400601**

Thanks & Regards

Gaurav Ghelani  
Academic Relationship Manager - India West  
Tata Consultancy Services  
Phone : 91 22 677 82295  
Buzz : 422 2295  
Cell : +91 98211 79368  
Email : [gaurav.ghelani@tcs.com](mailto:gaurav.ghelani@tcs.com)  
Website : <http://www.tcs.com>

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**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING  
FR. AGNEL ASHRAM, BANDSTAND, BANDRA (W) - 400050**

**Department Of Production Engineering**

**Minutes of Departmental Advisory Board Meeting**

Date : 21/09/2019  
Time : 10.30 a.m. – 12.00 noon  
Venue : Conference Room

**Agenda:**

1. Presentation of of Vision, Mission, Program Educational Objectives(PEO),Program Outcomes (PO),Program Specific Outcome (PSO)statements
2. Presentation of the CO attainment process, Academic results and Training & placement details
3. Discussion on NBA Compliance report and NAAC activity
4. Suggestions on academic processes

The Principal, Dr. Srija Unnikrishnan welcomed all the departmental advisory board members, faculty members and briefed them about the agenda for the meeting. The principal briefed about Mechanical Engineering program introduced by the college from academic year 2019-20, Institute applying for NAAC Accreditation and preparing for compliance report to be submitted to NBA.

***Following points were discussed during the meeting:***

NBA Program coordinator for the department, Dr. Vasim Shaikh presented academic performance and departmental activities in the previous academic year. The presentation included vision, mission, PEO, PO, PSO statements, CO-PO and PSO attainment for academic year 2017-18 and 2018-19 (Odd semester), BE results evaluation, internship and placement statistics, departmental highlights and activities.

Following suggestions were provided by the members during the course of presentation:

1. **Vision, Mission and Goal Statements** - Dr. Bokade suggested revising vision and mission in the next revision cycle to make it shorter and specific. He also suggested defining goal statements that are quantifiable and time-bound to achieve vision and mission. Mr. Rajendra Gangan also supported his statement and suggested to have time specific objectives and goals for a defined time-period,
2. **PEO and PSO Statements** - Dr. Bokade suggested adding more PEOs if required and considering revision of PSOs to state the outcomes that are not covered in POs and specific to the program offered by the institute. He also suggested having PSO statement targeting development

of interdisciplinary approach. Prof. Sudhakar provided justification for current PSO statements which are formulated according to the strengths and highlights of the program offered by the college.

3. **Justification of CO-PO and CO-PSO Mapping** - Dr. Bokade advised to document justification of CO-PO and CO-PSO mapping and getting it validated by subject experts. Prof. Sudhakar welcomed this suggestion stating that this will provide documentary evidence for the process followed. Ms. Ketaki also brought it to the notice of all the members that this practice is being followed in other disciplines for compliance to NBA and NAAC requirements.
4. **Placement Opportunities** - Prof. Sudhakar brought it to the notice of the committee members that the department has built up professional relationship with many industries for B.E. Internships which are part of the sandwich pattern curriculum of production engineering. He further added that more conscious efforts are needed to convert these relationships into employment opportunity for our graduates. Mr. Rajendra stated that students need to develop skill sets and practical knowledge for making them employable. Dr. Jorapur explained the institute initiatives for bridging the gap between theory and practical. Dr. Bilolikar raised a concern of students' changing mindset and exam-oriented nature facing challenges during placement. Dr. Bokade emphasized on skill upgrade of students as well as teachers for future technologies and consciously changing students' mindset for employability. Mrs. Sharmili Purav, parent representative iterated that more student-teachers interaction can encourage students to take up interest in studies and improving their academic performance for being industrially employable.
5. **Entrepreneurship Development** - Mr. Rajendra suggested having an incubation centre in the campus and promoting students to undergo Startup India training program. The ideas were welcomed by all the members.

Head of the Department, Dr. Jorapur concluded the meeting with a vote of thanks to all the DAB members.

**Meeting Attended By:**

Sr. No.	Name of the Faculty Member
1.	Dr. S. U. Bokade – Academic Expert
2.	Mr. Rajendra Gangan – Alumnus and Entrepreneur
3.	Mrs. Sharmili Purav – Parent Representative
4.	Dr. Vedavyasrao Srinivasrao Jorapur
5.	Prof. D. S. S. Sudhakar
6.	Dr. Vijay Santukrao Bilolikar
7.	Dr. Bhushan Tryambak Patil
8.	Dr. Vasim Abdul Majid Shaikh
9.	Ms. Ketaki N. Joshi

Dr. V. S. Jorapur

  
Head of Department  
(Production Engineering)



**DEPARTMENT OF PRODUCTION ENGINEERING**

**DEPARTMENTAL ADVISORY BOARD (DAB) MEETING**

**DATE : 21<sup>ST</sup> SEPTEMBER 2019 TIME: 10.30 AM**

**VENUE : CONFERENCE ROOM (5<sup>TH</sup> FLOOR, F.R.C.R.C.E BLDG.)**

**ATTENDANCE**

No.	Name	Signature with date
1.	Dr. V. S. Jorapur	
2.	D. S. S. Sudhakar	
3	Dr. S. V. Bokade.	
4	Mr. Gangan Rajendra.	
5	Dr. V. S. Bibhika,	
6	Dr. Bhushan Pawil.	
7	Prof. Ketaki Joshi	
8	Dr. Vasim Sheikh	
9	Mrs. Sharmila Adwait	
10	<del>Dr. B.</del>	



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www.onlinemanufacturing.in  
CIN: U74999AH2018PTC305579

Ref: TECH/Dec19-Jan20/001

Date : 11<sup>th</sup> Jan. 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Mareena Mark Fernandes** has undergone 'Project Training' during the period from 2<sup>nd</sup> Dec. 2019 to 4<sup>th</sup> Jan. 2020. During this period she worked as Intern for our company. During her training with us, we have found her to be sincere, dedicated and hardworking.

We wish her every success in life.

For Conbuss Online Manufacturing Pvt Ltd.

  
Mr. Rajendra Gangan,  
Founder & CEO



Registered Address: GRD, New Bharat Nagar, Almeda Compound, Praliksa Nagar, Near Tata Power, Sion-Koliwada, Mumbai - 400022.  
Operating Address: Sardar Patel - Technology Business Incubator, 8th Floor, SP-IT Bldg, Bhavan's College Campus, Andheri (W), Mumbai - 400058

## ACKNOWLEDGEMENT

*"It is not possible to do a project without assistance and encouragement of other people. This one is certainly no exceptions".*

I would like to extend my sincere & heartfelt obligation towards all the personages who have helped me in this endeavor. Without their active guidance, help, cooperation & encouragement, I would not have made headway in the project.

I am extremely thankful to my guide **Prof. Dr. V. S. Jorapur** for conscientious guidance & encouragement to accomplish this assignment.

I am also indebted to **Prof. M. VeerBhadra Rao** and my guide **Prof. Dr. V. S. Jorapur** for giving me an opportunity to work in a industry and allowing me to do an industrial project.

I would like to thank co-founder of Brillmax Pvt. Ltd. **Mr. Vishal Dakshini & Mr. Manthan Dakshini** for always supporting and assisting me in this project. Without them, this would not have been possible.

I would like to thank my Institution and faculty members without whom this project would have been a distant reality.

I also extend my heartfelt thanks to my family, friends, and well-wishers consistently providing moral support.

**Pranav Pravin Joshi**  
**Fr. CRCE, Bandra**  
**(M.E. CAD, CAM & ROBOTICS)**

Jointly Welcomes you to



**One Week Online**  
**Student Development Program**

ON

**Advanced Technologies**  
 for  
 EMPLOYABILITY  
 in  
**MECHANICAL & MANUFACTURING ENGG.**

**12<sup>TH</sup> TO 16<sup>TH</sup> JUNE 2020**



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**DEPARTMENT OF MECHANICAL & PRODUCTION ENGG.**  
**Fr. Conceicao Rodrigues College of Engg.**  
 Fr. Agnel Ashram, Bandstand, Bandra (W) - 50  
 Mumbai, Maharashtra State, India

## ABOUT THE SDP

The Department of Mechanical and Production Engineering of Fr. Conceicao Rodrigues College of Engineering, Mumbai is proud to organize a National level 5-day Student Development Program (Online) on “Advanced Technologies for Employability in Mechanical and Manufacturing Engineering”. With the Industry progressing towards Industry 4.0, traditional mechanical and manufacturing processes are undergoing major transformation. Industrial processes are being transformed through integration of advanced technologies such as automation, mechatronics, robotics, PLC technologies and many more. This SDP is designed to offer the learners an introduction to the technological advances in Mechanical and Manufacturing sector and improve their understanding about the opportunities and challenges brought about by these transformations.

## ELIGIBILITY

Students from 12th / Diploma / UG / PG background are eligible for this course. The seats are limited, and the selection will be made on 'First come first serve' basis. Registrations will close once we reach our quota of allowable participants.

## GUIDELINES

- 1) NO COURSE FEES is charged to the participants.
- 2) Deadline to Register is **10th June 2020** midnight.
- 3) Participants can attend the SDP through any medium (Laptops / Desktops / Mobile)
- 4) Attendance cum Participation E-Certificates will be provided on 100% Attendance, Feedback & Quiz (Passing 40% min.).
- 2) Any updates will be notified on Telegram group.
- 6) Misappropriate or misconduct from Participants can lead to cancellation of participation.

### Our Patrons:

Rev. Fr. Peter Dsouza (Local Superior)

Rev. Fr. Valerian Dsouza (Director)

Dr. (Mrs.) Srija Unnikrishnan (Principal)

**Convenor:** Dr. V.S. Jorapur (HOD)

**Industry Collaboration by:** Prof. D.S.S. Sudhakar

**Program Coordinators:** Prof. Hitendra Vaishnav, Prof. Ketaki Joshi

**Program Co-coordinators:** Prof. Dipali K. Bhise, Prof. Deepika Singh Singraur

Prof. Veerabhadra Rao Miriyala, Prof. Saurabh K.

**For any queries, contact:** Prof. Deepika Singh (83696 99147)

Prof. Saurabh Korgankar (98692 85983)

## ABOUT THE INSTITUTION

### Fr. Conceicao Rodrigues College of Engineering

Affiliated to University of Mumbai

A Christian Religious Minority Institution



DTE Code 3184

ACCREDITED BY



Ranked 6<sup>th</sup> among Private Engineering Institutes of Maharashtra (Ranking – 2019)

EducationWorld

Ranked 7<sup>th</sup> among top Private Engineering Institutes in the Country (Ranking Survey – 2019)



**Moulding Engineers Who Can Build The Nation**

Fr. Conceicao Rodrigues College of Engineering (CRCE) was established in 1984 as part of Fr. Agnel Technical Complex at Bandra, Mumbai by the Society of St. Xavier Pilar and is named after its founder the late Rev. Fr. Conceicao Rodrigues. The College is affiliated to the University of Mumbai. The college conducts Bachelor Degree courses in Mechanical Engineering, Production Engineering, Electronics & Computer Science, Electronics Engineering, Computer Engineering, Information Technology, Artificial Intelligence & Data Science (Under Approval). The College also offers full-time Master's Degree courses in Mechanical Engineering (CAD-CAM with Robotics) and Doctoral Programmes in Electronics Engineering and Mechanical Engineering. The College is located at Bandstand, Bandra, Mumbai in a picturesque environment surrounded by the Arabian Sea. Institute have been accredited by National Board of Accreditation (NBA-India) and National Assessment and Accreditation Council (NAAC). The Institute has been consistently ranked highly in major surveys like the NIRF, TOI, INDIA TODAY to name a few.

### ABOUT THE DEPARTMENT

*The Department of Mechanical & Production Engineering conducts Undergraduate courses in B.E. Mechanical Engineering and B.E. Production Engineering. It is conducting post-graduate course (M.E. CAD/CAM & Robotics) and Doctoral courses (Ph.D.) in Mechanical Engineering.*

- State-of-the-art Laboratories are available in the areas of Machining, Sheet metal working, Welding, Robotics, CAD/CAM, CNC Production grade machines, Automation, Modelling, Simulation, Ergonomics, Materials and Industrial Operations Management.
- Reputed industries like Larsen & Toubro, Godrej and Boyce, Siemens, Mahindra and Mahindra, Mercedes Benz, General Mills, Tata Consultancy Services, Mazgaon Dock, Accenture, etc. employ our students.
- Students after undergraduate course join abroad for higher studies in the best of the Universities like Cornell USA, Georgia Tech USA, Harvard, USA, Delft, Netherlands, KTH Sweden.
- Professional Societies and Student Chapters in Mechanical and Production Engineering domain are ASME (American Society of Mechanical Engineers), SAE (Society of Automotive Engineers) and IIExCRCE (Indian Institution of Industrial Engineering).
- Our students have performed very well in prestigious competitions related to ATVs, Go-Karts, Robotics, Aero, Quad-copter, Hackathons, Idea competitions at national and international level every year.

## SDP - Invited Speakers

### 5-Days Student Development Program on

### Advanced Technologies for Employability in Mechanical and Manufacturing Engineering

12 June to 16 June 2020

Topic	Speaker	Affiliation
<b>Christiani SharpLine</b>		
Automation, Mechatronics and Industry 4.0	Mr. Mohan Iyer	General Manager and Business Head, Christiiani SharpLine Technical Training Private Limited
Vertical Transportation – Elevator Technologies	Mr. K G Guna	Head – Chennai Training Centre, Christiiani SharpLine Technical Training Private Limited
Basics Of PLC Technologies	Mr. Rohan Bhamre	Assistant Manager (Projects & Training), Christiiani SharpLine Technical Training Private Limited
<b>Fr. CRCE</b>		
Advances in Mechanical Engineering & Robotics	Prof. D. S. S. Sudhakar	Head – IRG, Fr. CRCE
Manufacturing System Analysis using Arena	Mr. Saurabh Korgaonkar	Assistant Professor, Fr. CRCE
Micro-Electro-Mechanical Systems (MEMS)	Dr. Arun Rane	Associate Professor, Fr. CRCE
Nanotechnology	Dr. Deepak Bhoir	Professor and Dean Students Affairs, Fr. CRCE
Additive Manufacturing	Dr. Hemant Khanolkar	H.O.D., Humanities & Science, Fr. CRCE
Cloud Computing	Ms. Ketaki Joshi	Assistant Professor, Fr. CRCE
Injection moulding – New Trend In Manufacturing And Processing	Mr. Mahendra Mehra	Assistant Professor, Fr. CRCE
CNC Controller Integration and CNC Micromachining Systems	Mr. Shivanand Kugatoli	Chief Manager, Technology Planning & Manufacturing Excellence, SIEMENS
	Mr. K. Shrinivasan Iyer	Managing Director, Interface Design Associates Pvt. Ltd.
	Dr. B. Vaidyanathan	Founder Director, Interface Design Associates Pvt. Ltd.
<b>Other Industry Experts</b>		

DEPARTMENT OF  
MECHANICAL & PRODUCTION ENGG.

Fr. Conceicao Rodrigues College of Engg.  
Fr. Agnel Ashram, Bandstand, Bandra (W) – 50  
Mumbai, Maharashtra State, India



## 5-Days Online Student Development Program Organized by Department of Mechanical and Production Engineering, Fr. CRCE

The department of Mechanical and Production Engineering at Fr. Conceicao Rodrigues College of Engineering organized a 5-Days Online Student Development Program on “Advanced Technologies for Employability in Mechanical and Manufacturing Engineering” from 12<sup>th</sup> June 2020 to 16<sup>th</sup> June 2020. The program was conducted under the guidance of head of the department, Dr. V S Jorapur and was in collaboration with Christiani Sharpline Technical Training Pvt. Ltd. (CSTT), materialized through the efforts of Prof. D S S Sudhakar, Head – IRG. The organizing team consisted of Prof. Hitendra Vaishnav, Dr. Ketaki Joshi, Prof. Dipali Bhise, Prof. Deepika Singh, Prof. M V B Rao and Prof. Saurabh Korgaonkar.



First day, kick started with inaugural speech by Dr. V S Jorapur, H.O.D. and Mr. Mohan Iyer, General Manager and Business Head, CSTT. First Session was on ‘Industrial Robotics’ by Prof. Saurabh Korgaonkar, Fr. CRCE followed by second session on ‘Automation, Mechatronics and Industry 4.0’ by Mr. Mohan Iyer. The sessions were truly informative in nature highlighting advanced technologies in mechanical and manufacturing engineering.

Second day begun with a session on ‘Injection moulding – New Trend In Manufacturing and Processing’ by Mr. Shivanand Kugatoli, Chief Manager, Technology Planning & Manufacturing Excellence, SIEMENS. The second session was delivered by Prof. D S S Sudhakar on ‘Advanced Technologies in Mechanical and Manufacturing Engineering’. Prof. Sudhakar provided glimpses of various recent trends and advancements in the related engineering field enlightening enthusiasm in the minds of participants. The third session was on ‘Introduction to PLC Technologies’ by Mr. Rohan Bhamre, Assistant Manager (Projects & Training), CSTT. The session was truly engaging and interactive in nature.

Third day witnessed a series of sessions on advanced topics in mechanical engineering that included, ‘Cloud Computing’ by Prof. Mahendra Mehra, Fr. CRCE, ‘Micro-Electro-Mechanical Systems (MEMS)’ by Dr. D V Bhoir, Professor and Dean – Students Affairs, Fr. CRCE and Nanotechnology by Dr. Hemant Khanolkar, Head – Humanities and Science Department, Fr. CRCE. All the sessions were truly informative and engaging in nature. The day was concluded with a short revision session on PLC Technologies by Mr. Rohan Bhamre.

On fourth day, Dr. Arun Rane engaged first session on ‘Manufacturing System Analysis using Arena’ providing basics of manufacturing system simulations followed by an interesting

demonstration on Arena software. In the second session, Mr. Rohan Bhamre provided more insights into PLC technologies with industrial case studies and engaged students in a truly interactive online classroom. The session was well appreciated by all the participants.

Fifth day started with two eminent speakers from industry, sharing their knowledge about ‘CNC Controller Integration and CNC Micromachining Systems’. The speakers for the session were Mr. K. Shrinivasan Iyer, Managing Director and Dr. B. Vaidyanathan, Founder Director of Interface Design Associates Pvt. Ltd. It was followed by a session on ‘Additive Manufacturing’ by Dr. Ketaki Joshi highlighting the role of additive manufacturing in the context of Industry 4.0. The last session for the day was on ‘Vertical Transportation – Elevator Technologies’ by Mr. K G Guna, Head – Chennai Training Centre, CSTT. The session provided insights into vertical transport as a career opportunity for mechanical engineers. The program was concluded by vote of thanks by Dr. Jorapur and Prof. Sudhakar.

The program witnessed participation of over 190 enthusiastic students in mechanical and production engineering at degree and diploma level as well as H.S.C. pass-outs aspiring for engineering career. Collaboration with ‘Christiani Sharpline’ enhanced value of the program and eminent resource persons from industry and academia truly provided a huge take-away for all the participants. E-Certificate of participation was issued to all the participants who attended the program and appeared for the quiz conducted post the event. The organizing team is thankful to the H.O.D., the Principal and Management for their constant motivation and support that led to a successful online student development program during Covid-19 pandemic situation.

 <b>Dr. V. S. Jorapur</b> Head of Department	 <b>Dr. B. Vaidyanathan</b> Founder Director Interface Design Associates Pvt. Ltd	 <b>Mr. K. Shrinivasan Iyer</b> Managing Director Interface Design Associates Pvt. Ltd	 <b>Prof. Mahendra Mehra</b> Asst. Prof. Fr. CRCE
<b>Inauguration</b>	<b>CNC Controller Integration &amp; CNC Micro-Machining Systems</b>		<b>Cloud Computing</b>
 <b>Prof. D S S Sudhakar</b> Head – IRG, Fr. CRCE	 <b>Mr. K G Guna</b> Head – Chennai Training Centre, CSTT	 <b>Dr. D. V. Bhoir</b> Professor & Dean – Students Affairs, Fr. CRCE	
<b>Advances in Mechanical Engineering</b>	<b>Vertical Transport – Elevator Technologies</b>		<b>MEMS</b>
 <b>Mr. Mohan Iyer</b> General Manager & Business Head, CSTT	 <b>Mr. Rohan Bhamre</b> Assistant Manager (Projects & Training) CSTT	 <b>Dr. Hemant Khanolkar</b> Head, Humanities and Science Fr. CRCE	
<b>Automation, Mechatronics &amp; Industry 4.0</b>	<b>Basics of PLC Technology</b>		<b>NanoTechnology</b>
 <b>Mr. Shivanand Kugatoli</b> Chief Manager, Technology Planning & Manufacturing Excellence, SIEMENS	 <b>Dr. A. B. Rane</b> Asso. Prof. Fr. CRCE	 <b>Dr. Ketaki Joshi</b> Asst. Prof., Fr. CRCE	
<b>Injection moulding</b>	<b>Manufacturing System Analysis (Arena)</b>		<b>Additive Manufacturing</b>

### Internship Certificate

NAME : Aditya Khajuria  
DATE OF BIRTH : 09th September, 1999  
DATE OF JOINING : 03th June, 2019  
DATE OF LEAVING : 21st October, 2019  
DESIGNATION AT THE TIME OF LEAVING : Intern (IT)  
CONDUCT : Good  
ATTENDANCE : Good  
REASON FOR LEAVING : Further Studies  
COMMENTS : Aditya has successfully handled his responsibilities under minimum guidance and sincerely. During his internship, he performed the following tasks

1. Designed promotional content for special days
2. Designed logo, flyers and brochure of the company
3. Created animated video

Regards,

*Harshada T*  
Harshada Topale



Director, Cloud Counselage Pvt Ltd.  
[Harshada.Topale@CloudCounselage.com](mailto:Harshada.Topale@CloudCounselage.com)



GIRISH CHAWLA &lt;girishchawla285@gmail.com&gt;

**Fwd: Dr. Dalvi sir's session**

1 message

veerabhadrarao miriyala d. n. <mdnvbr@gmail.com>  
To: 8495 GIRISH CHAWLA <crce.8495.pe@gmail.com>, girishchawla285@gmail.com

Mon, Sep 27, 2021 at 5:18 PM

----- Forwarded message -----

From: **Chirayu Jha** <chirayu.jha@gmail.com>  
Date: Mon, 26 Aug 2019, 20:39  
Subject: Dr. Dalvi sir's session  
To: veerabhadrarao miriyala d. n. <mdnvbr@gmail.com>

IIExCRCE conducted a seminar on Energy Audit By Dr. Dalvi who has an experience of 20+ yrs. He shared his experience in the field and expl3each aspect in depth. The session was very informative and a huge audience was a part of the same. Sir also conducted a simple quiz for the students and gave a prize to the winner.

**4 attachments**

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# ADVANCED DEEP LEARNING WORKSHOP

Faculty Development Program



**ORGANIZED BY**  
**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**  
Initiated By IQAC  
**IN ASSOCIATION WITH**  
**LEADING INDIA AND NVIDIA**

02 Dec – 06 Dec 2019

Venue – Samvaad

**Fr. Conceicao Rodrigues College of Engineering,  
Bandra, Mumbai  
Internal Quality Assurance Cell**

**Date: 07 December 2019**

**Report of Advanced AI and Deep Learning workshop**

**Internal Quality Assurance Cell** of Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai, recently conducted a five days FDP on “ADVANCED AI AND DEEP LEARNING” in collaboration with Bennett University from 2<sup>nd</sup> December 2019 to 6<sup>th</sup> December 2019 in Samvad. Fr. Conceicao Rodrigues College of Engineering is a zonal lead for this project in Mumbai region. This workshop is conducted under the guidance of Dr. S. K. Surve, IQAC in-charge of FRCRCE and with cooperation of Computer Department organizing team.

Participants across the India actively participated and enjoyed the advanced deep learning technologies with hands-on experience. More than 43 external participants from different organization, industries registered for the workshop and 8 internal faculty members actively took part in the workshop.

Deep learning is a subset of machine learning where artificial neural networks, algorithms inspired by the human brain, learn from large amounts of data. This workshop enabled participants to understand novel career options, as it is in the exciting phase of growth worldwide. This workshop presented different flavor of neural Network, selection of model according to the domain and nature of problems. Further, it acquainted the participants with insight of how to optimize Deep Learning models and reinforcement learning concepts.

This five day workshop is conducted by **Dr, Sridhar Swaminathan, Dr. Vipul Mishra and Mr. Anubhav Partirck from Bennett University. Detail Schedule, responsibility handled matrix and Photos is attached with this report.**

This workshop was a success as participants learned Advanced AI and Deep learning techniques with hands on experience. This workshop will be helpful to the participant, as new emerging frontier to deal with industry specific problem and areas for future research. This holistic understanding with the certification from Bennett University and NVIDIA will add extra miles in participant’s career.

## 1) Schedule of Workshop on Advanced Deep Learning

<b>Day 1: Deep Learning Revision – Dr. Sridhar Swaminathan</b>	
8.00-9.00	<b>Registration</b>
<b>Session 1</b> 9.00-11.00	<b>Revision: Neural Network</b> Neural Networks, Gradient Descent, Backpropagation, Activation Functions, Regularization, Optimizers, and Hyper parameter Tuning
<b>TEA BREAK</b>	
<b>Session 2</b> 11.15-13.00	<b>Deep Learning Lab 1: Hands on with Neural Networks</b> Image classification Fashion MNIST, CIFAR10
<b>LUNCH BREAK</b>	
<b>Session 3</b> 14.00-16.00	<b>Revision: CNN and RNN</b> Convolution, Striding, Padding, Pooling, AlexNet, Transfer Learning, Object Detection, Face Recognition, Sequential Processing, Word Embedding, LSTM, GRU, Text Generation, Translation, Attention Modeling, Speech Recognition
<b>TEA BREAK</b>	
<b>Session 4</b> 16.15-17.30	<b>Deep Learning Lab 2: Hands on with CNN and RNN</b> Image classification CIFAR100 with CNN Transfer Learning with famous pretrained models Reuters newswire topics classification with RNN
<b>Day 2: Advanced Deep Learning Part 1 – Dr. Sridhar Swaminathan</b>	
<b>Session 1</b> 9.00-11.00	<b>Unsupervised Deep Learning</b> Sparse Coding, Restricted Boltzman Machine, Deep Belief Networks
<b>TEA BREAK</b>	
<b>Session 2</b> 11.15-13.00	<b>Advanced Deep Learning Tools 1</b> Hands on with Tensorflow 2.0
<b>LUNCH BREAK</b>	
<b>Session 3</b> 14.00-16.00	<b>Deep Generative Models</b> Autoencoders, Variational Autoencoders, Generative Adversarial Networks
<b>TEA BREAK</b>	
<b>Session 4</b> 16.15-17.30	<b>Deep Learning Lab 3:</b> RBM for Recommender Systems Autoencoders for image encoding, Deconvolutional Generative Neural Networks for digit generation
<b>Day 3: Advanced Deep Learning Part 2 – Dr. Vipul Mishra</b>	
<b>Session 1</b> 9.00-11.00	<b>Advanced Deep Learning Topics in CNN</b> CNN Visualization, New-age Convolutions, Advanced Object Detection: YOLO v3, Image Segmentation: FCN, SegNet, UNet, Style Transfer
<b>TEA BREAK</b>	
<b>Session 2</b> 11.15-13.00	<b>Advanced Deep Learning Tools 2</b> Hands on with PyTorch
<b>LUNCH BREAK</b>	
<b>Session 3</b> 14.00-16.00	<b>Advanced Deep Learning Topics in RNN</b> Bidirectional RNN, Attention Models, Memory Networks, Advanced Word Embeddings: BERT, ELMo, MUSE, Augmentation for NLP
<b>TEA BREAK</b>	

<b>Session 4 16.15-17.30</b>	<b>Deep Learning Lab 4:</b> YOLO-v3 Object Detection UNet for Segmentation Style Transfer for image painting Chatbot using Seq2Seq LSTM models
<b>Day 4: Advanced Deep Learning Part 3 - Dr. Vipul Mishra</b>	
<b>Session 1 9.00-11.00</b>	<b>Deep Learning Model Optimization Part 1</b> Compact Architectures, Pruning, Low-rank Factorization, Quantization, Encoding
<b>TEA BREAK</b>	
<b>Session 2 11.15-13.00</b>	<b>Deep Learning Model Optimization Part 2</b> Student Teacher Networks, Neural Architecture Search (NAS), AutoML, Auto Keras, Multi-objective Approaches <b>Deep Learning Lab 5:</b> Pruning for Networks, Low-rank decomposition using SVD, Autokeras for NAS, Knowledge Distillation
<b>LUNCH BREAK</b>	
<b>Session 3 14.00-16.00</b>	<b>Deep Reinforcement Learning Part 1</b> Introduction To RL, Markov Decision Processes, Dynamic Programming Policies, value functions, Bellman equations, Monte Carlo Methods, Greedy and epsilon-greedy policies, Exploration-Exploitation Dilemma
<b>TEA BREAK</b>	
<b>Session 4 16.15-17.30</b>	<b>Deep Reinforcement Learning Part 2</b> Temporal-Difference Methods, Deep Q-Learning: Bellman Equations, DQN Variants, Policy-Based Methods and Improvement, Actor-Critic Methods <b>Deep Learning Lab 6:</b> Deep Q Networks for Atari Games
<b>Day 5: Project Day - Mr. Anubhav Patrick - Reinforcement learning</b>	
<b>Session 1 9.00-11.00</b>	<b>Deep Learning Project 1: Satellite Image Segmentation</b> Data collection, Preprocessing, Augmentation
<b>TEA BREAK</b>	
<b>Session 2 11.15-13.00</b>	<b>Model Development</b> CNN Model Development, Training, Testing and Improvement
<b>LUNCH BREAK</b>	
<b>Session 3 14.00-16.00</b>	<b>Deep Learning Project 2: Wakeup word Detection</b> Data collection, Preprocessing, Feature Extraction
<b>TEA BREAK</b>	
<b>Session 4 16.15-17.30</b>	<b>Model Development</b> RNN Model Development, Training, Testing and Improvement

## 2) Responsibility Handled by Organizing Team

Sr. no	Faculty	Responsibility
1	Dr. S. K. Surve, IQAC In charge and Dean	Project Head of AI and Deep learning Guidance, support and communication for this Workshop
2	Dr. Sujata Deshmukh, Workshop Coordinator	Overall coordination and management, Web site data, Reception, Reports handling
3	Prof. Ashwini and Dipali	Venue Arrangement
4	Prof. Ashwini and Prof. Supriya	Welcome message and Guest Introduction
5	Prof. Supriya and Prof. Heena	Accommodation arrangements, Budget
6	Prof. Roshani and Kalpana	Food Arrangement
7	Prof. Swati Ringe	Digital Banner

## 3) Photos

### Day1 and 2





## Day2 and 3





## Day5



Submitted By

Dr. Sujata P. Deshmukh

Workshop coordinator

# Certificate of Training

## UPMANYU JHA

from **Fr. Conceicao Rodrigues College Of Engineering** has successfully completed a six weeks online training on **Graphic Design** from 5th May, 2020 to 16th June, 2020. The training consisted of Fundamentals of Graphic Design, Photoshop- Interface and Tools, Workflow and Photo Correction in Photoshop, Effects and Techniques in Photoshop and Beauty Techniques in Photoshop modules. In the final assessment, UPMANYU scored 80% marks. We wish UPMANYU all the best for the future.

A handwritten signature in black ink, appearing to read "Sarvesh".

**Sarvesh Agrawal**  
Founder & CEO, Internshala

Date of certification: 2020-06-17

Certificate no. : 21847DE1-0506-0FFE-F7CC-59E52569CE15

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



**Certificate of Completion**  
**upmanyu Jha**

**Has successfully completed**  
**Introduction to AWS Machine Learning Services**

**Director, Training and Certification**

5 minutes

**Duration**

22 June, 2020

**Completion Date**



**Certificate of Completion**  
**upmanyu Jha**

**Has successfully completed**  
**Machine Learning Terminology and Process**

A handwritten signature in cursive script, appearing to read "Maurice Jorgensen".

**Director, Training and Certification**

1 hour

**Duration**

22 June, 2020

**Completion Date**



**Certificate of Completion**  
**upmanyu Jha**

**Has successfully completed**  
**Introduction to Amazon Elastic Compute Cloud (EC2)**

A handwritten signature in black ink, appearing to read "Maurice Jorgensen".

**Director, Training and Certification**

10 minutes

**Duration**

22 June, 2020

**Completion Date**



**Raj Mourya**

has successfully completed the AWS Certification requirements and has achieved their:

**AWS Certified Cloud Practitioner**

**Issue Date**  
Jul 21, 2021

**Expiration Date**  
Jul 21, 2024

A handwritten signature in black ink that reads "Maureen Lonergan".

**Maureen Lonergan**  
Director, Training and Certification

Validation Number NFFM0T9DL2R4QRGH  
Validate at: <http://aws.amazon.com/verification>