

CHIEF PATRONS

Sri. A. S. Vishwanatha

President, National Education Society, Shivamogga.

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Vice-President, National Education Society, Shivamogga.

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Sri C. R. Nagaraj

Treasurer, National Education Society, Shivamogga.

PATRON

Dr. H. R. Mahadevaswamy

Principal, J.N.N.C.E., Navule, Shivamogga.

PROGRAM CHAIR

Dr. P. Manjunatha

Professor ECE and Dean Academic, J.N.N.C.E., Navule, Shivamogga.

ORGANIZING CHAIR

Dr. E. Basavaraj

Professor & Head, M.E., J.N.N.C.E., Navule, Shivamogga.

COORDINATORS

Mr. M. K. Srinivasamurthy

Asst. Professor, M.E., J.N.N.C.E., Navule, Shivamogga.

Mr. Pradeep N. B.

Asst. Professor, M.E., J.N.N.C.E., Navule, Shivamogga.

FOR MORE INFORMATION CONTACT

Coordinators:

- 1) +91 72043 21012
- 2) +91 94491 64205

ORGANIZING COMMITTEE

All Teaching & Technical Staff

Mechanical Engineering, J.N.N.C.E., Navule, Shivamogga.

HOW TO REGISTER

- ❖ There is no registration fee for the program.
- ❖ However, for registration please fill up the form given.

https://docs.google.com/forms/d/e/1FAIpQLSfNWeOJZH_33lOK8Uy1sIS4wcxuXoIrz4QpPICR7M07njlxw/vie/wform

Click on the Link or Scan the QR Code



LAST DATE OF REGISTRATION

2nd of Sunday August 2020

RESOURCE PERSONS

Dr. Manjiah M.

Assistant Professor, Department of Mechanical Engineering,
National Institute of Technology, Warangal - 506 004, Telangana, INDIA.

Dr. Raghavendra Krishna

Associate Professor, Centre for Incubation Innovation Research &
Consultancy, Jyothy Institute of Technology, Bengaluru.

Mr. Vijay T.

Assistant Professor, Department of Automobile Engineering,
Dayananda Sagar College of Engineering, Bangalore.

Mr. Raghavendra S.

Founder & CEO, Aakruthi3D Pvt. Ltd.

Dr. Adam Khan

Ph. D. (NIT Tiruchirappalli), PDF (RSA), Department of Mechanical
Engineering, Kalasalingam University, Tamilnadu.

National Education Society®

J.N.N.College of Engineering

(Affiliated to VTU Belgaum & Approved by AICTE New Delhi & Recognized by Govt. of Karnataka)
(Certified by UGC 21 & 12B, Accredited by NAAC - 'B' & NBA - 01.07.2019 to 30.06.2022)

(MBA Accredited Branches - UG - CV, ECE, CSE, ME, ISE, ME & TCE)

Internal Quality Assurance Cell (IQAC)

Navule, Savalanga Road, Shivamogga - 577 204 (Karnataka)

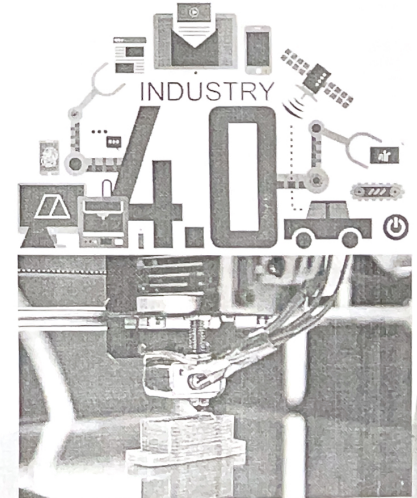
Contact: 08182-276707/08/09, 2688800/1 | Fax: 08182-222450

E-Mail: principal@jnnc.ac.in

Website: www.jnnc.ac.in

Department of Mechanical Engineering Organizing

One Week Faculty Development Program on
"Industry 4.0 & Additive Manufacturing"



Date : 3rd Monday to 7th Friday August 2020

ABOUT N.E.S.

- ❖ Established in 1946 by freedom fighters & philanthropist of high repute, with a mission "to provide quality education at a reasonable cost" giving emphasis on rural and women education.
- ❖ Has set up 35+ educational institutions in the Malnad region of Karnataka State, in a wide range of disciplines such as Engineering, Science, Pharmacy, Commerce, Humanities, Education, Law, Business Administration, Physical Education, Computer Application and Applied Sciences.
- ❖ The management in comprising of highly respected persons from different professions and social service committed to carry forward the enlightening the vision and the illustrious legacy of its founders.

ABOUT INSTITUTION

The history of JNN College of Engineering is marked by events that have made it synonymous with quality education. Established in 1980 by NES, the College is affiliated to Visvesvaraya Technological University, Belagavi, recognized by the All India Council for Technical Education (AICTE) and Government of Karnataka. JNNCE is a flagship institute of the National Education Society (NES), established by freedom fighters and philanthropists like Sri. H. S. Rudrappa, Sri. S. V. Krishna Murthy Rao, Sri S. R. Nagappa Setty and Sri. D. S. Dinakar and groomed by Sri Girmaji N. Rajagopal, Sri D. R. Rainakar among others - has, during 70 years of its existence, spread its wings in several disciplines of education through establishment of 41 educational institutions in the Malnad region of Karnataka state.

Jawaharlal Nehru National College of Engineering (JNNCE), is one of the technical institutions of Karnataka, providing excellent technical education and training to students from all parts of India. Started in the year 1980, the institution has completed 40 years of its fruitful existence towards achieving perfection in all aspects of technical education and training and has emerged as one of the most sought-after destination for technical and management education by students and parents from all over India.

JNNCE is affiliated to Visvesvaraya Technological University (VTU), Belagavi and recognized by the All India Council for Technical Education (AICTE). The college offers BE courses in 7 branches of engineering, namely, Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication, Electronics & Telecommunication, Computer Science and Engineering, Information Science and Engineering. All the disciplines were accredited from the National Board of Accreditation, New Delhi till June 2022 and the renewal process of accreditation as per Out Come Based Education has been initiated.

ABOUT DEPARTMENT

Established in 1980, Mechanical Engineering department has a dynamic, highly qualified & experienced faculty constantly engaged in R&D activities. Fully equipped labs with CAD/CAM/CAE, CNC training and Robot facilities and Condition Monitoring lab provide an environment where students can experience the vast expanse of Mechanical Engineering. The department has a number of research projects in the areas of stress analysis, vibration, composite materials & Bio fuel sponsored by AICTE/VTU. The department also has been recognized as a research center by VTU, leading to Doctoral and M.Sc. (Engineering) degrees.

DEPARTMENT VISION

- ❖ To be a model department with academic excellence and technical expertise, grooming students to become Mechanical Engineers of best quality to meet ever changing needs of industry and society.

DEPARTMENT MISSION

- ❖ Impart technical education of highest standard by qualified and experienced faculty in the field of Mechanical Engineering through effective teaching learning process.
- ❖ Continuously upgrade knowledge, skill and engage in Research & Development activity by executing challenging projects in association with academia and industry.
- ❖ Imbibe ethical, environmental and social values amongst students using value-based education.

OBJECTIVES OF FDP

- ❖ To create awareness about Industry 4.0 among the academia and to build the next generation academic institutions.
- ❖ To acquire the knowledge on industry 4.0 and its applications in digital manufacturing
- ❖ To update the participants with the state-of-the-art technologies in 3D Printing.
- ❖ To enable participants about innovation in teaching methods.
- ❖ Upgrading the skill set of the teacher in order to include technological advancements.
- ❖ To enable participants to learn the industrial, real life and pedagogical applications of 3D printing.
- ❖ To introduce the participants to the amazing world of 3D Printing and its fascinating applications in Industries and Medical field.

ABOUT THE PROGRAM

3D Printing or Additive Manufacturing refers to the process of producing a 3D objects through the deposition of a material using a print head, nozzle, or other printer technology. However, the term is often used synonymously with additive manufacturing (AM). In particular, it is associated with machines that are lower in relative price and overall functional capability. 3D Printing is used to build physical models, prototypes, patterns, tooling components and production parts with materials like plastics, metal, ceramic, glass, and composite materials. 3D Printing systems use thin, horizontal cross sections from computer-aided design (CAD) models, 3D-scanning systems, medical scanners, and video games to produce parts in about every shape imaginable. Design and manufacturing organizations use 3D Printed parts for products in the consumer, industrial, medical, and military markets, to name just a few. Digital cameras, mobile phones, engine parts, parts and assemblies for airplanes and medical implants are examples of a very long list of products which are benefited by the 3D printing technology. Industry 4.0 (I 4.0) is a phenomenally rising trend in automation and manufacturing technologies, dedicated for a higher integration of activities and divergence, which is also called as a "Smart factory". In this direction a one-week FDP has been organized.

LEARNING OUTCOMES

On completion of this FDP, participant will be able to:
Understand about Industry 4.0: Integration of Design and Manufacturing perspectives and 3D printing basics to advance.

WHO CAN REGISTER ?

- ❖ Faculties of Engineering.
- ❖ Industry Persons.
- ❖ Researcher Scholars and AI enthusiast.

NOTE

- ❖ Link for joining the webinar will be sent to the registered participant via E-Mail or WhatsApp Group.
- ❖ E-Certificate will be issued to participant after finishing the FDP.
- ❖ For more information join WhatsApp group by clicking on below link:

FDP IAM MECH JNNCE - 2020:
<https://chat.whatsapp.com/GWbdd3d5JEDn715RC068>

Participant List
Industry 4.0 & Additive Manufacturing
3rd to 7th Aug 2020

Sl.No	Reg.No.	Certificate No.	FullName	Institute
1	1	I4AM001	Mr.Parameshwara S	JNNCE, Shivamogga.
2	9	I4AM002	Mr.Prashantha	Moodlakatte Institute of Technology, Kundapura
3	18	I4AM003	Ms./Mrs.Ramya C R	PESITM, SHIMOGA
4	20	I4AM004	Mr.S P Dodamani	Angadi Institute of Technology and Management, Belagavi
5	25	I4AM005	Dr.Madhu B V	Smt. L. V. Govt. Polytechnic, Hassan-573201
6	33	I4AM006	Mr.Ananth Mohan Mallya	SMVITM, Bantakal
7	43	I4AM007	Mr.Amit Abhay Desai	Bharati Vidyapeeth's College of Engineering,Kolhapur
8	45	I4AM008	Mr.Girish G V	JNN COLLEGE OF ENGINEERING SHIMOGA KARNATAKA
9	46	I4AM009	Mr.Sriharsha H M	Adichunchanagiri Institute of Technology, Chikkamagaluru
10	47	I4AM010	Ms./Mrs.B.Rajeswari	Government College of Technology, Coimbatore
11	58	I4AM011	Mr.Sanjeev Gupta	Government College of Engineering and Technology, Jammu Dayanand Sagar Academy of Technology and Management, Bangalore
12	65	I4AM012	Mr.Syed Sha Khalid	
13	72	I4AM013	Mr.Sagar S R	Amruta Institute of Engineering and Management Sciences
14	78	I4AM014	Mr.Manu G	S J C Institute of Technology Dayananda Sagar Academy of Technology & Management, Bangalore
15	86	I4AM015	Dr.M.N Gururaja	
16	87	I4AM016	Dr.Umesh Hambire	Government College of Engineering, Aurangabad
17	89	I4AM017	Mr.Mohan Ganesh Trivedi	RCOEM, Nagpur
18	97	I4AM018	Mr.Venkatesan S	K.S.Rangasamy College Of Technology
19	105	I4AM019	Mr.Basavaraju Hr	VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
20	111	I4AM020	Mr.Nanjan Biddappa C	VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
21	119	I4AM021	Mr.Vijaya G	Dayanand Sagar Academy of Technology and Management
22	120	I4AM022	Mr.Paul Joshua S	SASTRA Deemed to be University, Thanjavur
23	124	I4AM023	Mr.Kishan P T	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
24	126	I4AM024	Mr.Ujwal U	Dayananda Sagar Academy of Technology and Management
25	128	I4AM025	Mr.Abilash Desai	SDMCET, Dharwad
26	129	I4AM026	Ms./Mrs. Bindhushree B S	Dayananda Sagar Institute of Technology

Participant List
Industry 4.0 & Additive Manufacturing
3rd to 7th Aug 2020

27	130	I4AM027	Mr.Chetan C G	JNN College of Engineering, Shivamogga
28	136	I4AM028	Mr.Yathiraj Karkera	Mangalore Marine College and Technology
29	137	I4AM029	Mr.Raju MG	Acharya Institute of Technology
30	139	I4AM030	Dr.K.Balachandar	SASTRA Deemed University, Thanjavur.
31	140	I4AM031	Mr.B. Sujay Aadithya	SASTRA Deemed University, Thanjavur.
32	144	I4AM032	Mr.Praveen V Rathod	UVCE K R Circle, Bengaluru
33	150	I4AM033	Mr.Bhavesh V Patel	B&B Institute of Technology, VVNAGAR
34	161	I4AM034	Mr.Talari Thimmappa	Dr K V Subba Reddy Institute of Technology Kurnool AP
35	165	I4AM035	Mr.Anand N	Vidyavardhaka Polytechnic, Mysuru
36	171	I4AM036	Dr.G. U. Raju	KLE TECHNOLOGICAL UNIVERSITY, HUBLI
37	176	I4AM037	Ms./Mrs.Sowmyashree P	JNNCE college shimoga
38	177	I4AM038	Mrs.Hareesha Cheekati	JNTUH-CEH Kukatpally
39	180	I4AM039	Mr.Chennakeshava R	Mangalore Institute of Technology and Engineering
40	181	I4AM040	Ms./Mrs.Yashaswini B M	Bangalore Institute of Technology
41	185	I4AM041	Mr.Rajesh R	Global Academy of Technology
42	187	I4AM042	Mr.Suhas U	Cambridge Institute of Technology
43	194	I4AM043	Mr.Mehabubsubahani R Alavandi	Tontadarya College of Engineering, Gadag
44	196	I4AM044	Mr.Saiyad Hasan S Khaji	Tontadarya College of Engineering, Gadag
45	199	I4AM045	Mr.Arunkumar Sadashiorao Kakad	Government Polytechnic Khamgaon dist. Buldhana (MS)
46	202	I4AM046	Mr.Shreenivas M	DAYANANDA SAGAR COLLEGE OF ENGINEERING BANGALORE
47	205	I4AM047	Mr.N Manjunath Gowda	University BDT College of Engineering, Davangere
48	206	I4AM048	Mr.Abdul Rub	HMS POLYTECHNIC(Govt Aided), Tumkur
49	211	I4AM049	Mr.Ramesh M	Jawaharlal Nehru National College of Engineering
50	212	I4AM050	Mr.Pavan Kumar MP	J.N.N College of Engineering
51	216	I4AM051	Mr.Raju S. Matti	Basaveshwar Engineering College, Bagalkot
52	222	I4AM052	Mr.Vinay D R	New Horizon College of Engineering
53	228	I4AM053	Dr.K Sabeel Ahmed	JNN COLLEGE OF ENGINEERING, SHIVAMOGGA
54	229	I4AM054	Dr.Manjunath Achar G H	JNN COLLEGE OF ENGINEERING SHIMOGA

Participant List
Industry 4.0 & Additive Manufacturing
3rd to 7th Aug 2020

55	230	I4AM055	Mr.Shivanandappa N D	JNN COLLEGE OF ENGINEERING SHIMOGA
56	231	I4AM056	Mr.Shanthi Kiran M	JNN COLLEGE OF ENGINEERING SHIMOGA
57	237	I4AM057	Mr.Vasudeva T	HMS POLYTECHNIC(Govt Aided), Tumkur
58	238	I4AM058	Mr.Abdul Saleem S	JNN COLLEGE OF ENGINEERING SHIMOGA
59	239	I4AM059	Mr.Jayavardhana Acharya N	JNN COLLEGE OF ENGINEERING SHIMOGA
60	242	I4AM060	Mr.Venkatesh S R	JNN COLLEGE OF ENGINEERING SHIMOGA
61	245	I4AM061	Dr.Amith Kumar S J	JNN COLLEGE OF ENGINEERING SHIMOGA
62	246	I4AM062	Mr.Sriharsha A M	Government College of Engineering Kushalnagar
63	Coordinator	I4AM063	Mr. Srinivasa Murthy MK	JNN COLLEGE OF ENGINEERING SHIMOGA
64	Coordinator	I4AM064	Mr.Pradeep NB	JNN COLLEGE OF ENGINEERING SHIMOGA
65	Coordinator	I4AM065	Dr.E.Basavaraj	JNN COLLEGE OF ENGINEERING SHIMOGA

Summary

NAME of Event	Online Faculty Development Program on “Industry 4.0 and Additive Manufacturing”
Duration	One week August, 3 rd to 7 th , 2020
Digital Platform	Goto Meeting (Free Version)
Participants Registered	230
Participants Qualified for certification	65
Finance	Self Financed by JNNCE
Total Expenditure	Rs.6000/-
Fee Collected from Participants	NIL
Video Recording	Done
Study Material Provided	NIL
Test Conducted	NIL
Association outside Institution	NIL
Attendance	Automatic through Goto Meeting
Registration	Google Forum
Feedback Collected	Google Forum

Industry 4.0 and Additive Manufacturing
August, 3rd to 7th, 2020

Session Report

Day-1 - Session-1 03-08-2020 (Day-1)

- Inaugural Function Started at 10:00AM
- MOC by Srinivasa Murthy MK
- Invocation by Ms.Soundarya Student of Mechanical Engineering
- Welcome by Dr.E. Basavaraj, HOD of Mechanical Engineering Department – Welcomed all the resource person, guests and guest of honor, Principal and participants to the FDP.
- Speak by Chief guest Sri.S.Vishwanantha , President, National Education Society, Shimoga.
- Guest of Honor: Sri. SN Nagaraja, Secretery, NES, Shimoga addressed the conference
- Presidential Address: Dr.H.R.Mahadevaswamy , Principal, JNNCE addressed the conference.
- Mr. Pradeep N B proposed vote of thanks.
- The Inaugural function concluded and followed by Keynote Address.
- Session Introduction of Speaker Dr.Arvind Kumar by Dr.M.M.Rajath Hedge
- **Keynote Address by Dr.Arvind Kumar, DME, IIT,Kanpur.**
- Dr.Rajath Hegde thanked him on behalf of the Department and Institution.
- Dr.K.Raghavendra Krishna delivered a talk on “Additive manufacturing- A tool for industrial revolution 4.0”
- Mr. Srinivasa Murthy thanked Dr.K.Raghavendra Krishna and participants for attending the program.

Day-2 – Session 04-08-2020 (Day-2)

- **Dr. Manjaiah M** delivered a talk on “Metallic additive manufacturing”.
- Mr. Srinivasa Murthy thanked **Dr. Manjaiah M** and participants for attending the program.

Day-3 – Session 05-08-2020 (Day-3)

- **Dr. Adam Khan** delivered a talk on “Application of additive manufacturing in biomedical engineering”.
- Mr. Srinivasa Murthy thanked **Dr. Adam Khan** and participants for attending the program.

Day-4– Session 06-08-2020 (Day-4)

- **Mr. Raghavendra S** delivered a talk on “Design thinking for fostering Innovation”.
- Mr. Srinivasa Murthy thanked **Mr. Raghavendra S** and participants for attending the program.

Day-5– Session 07-08-2020 (Day-5)

- **Mr.Vijay T delivered** a talk on “3D Printing Technology – Fused Deposition Method”.
- Mr.Srinivasa Murthy thanked **Mr.Vijay T and** participants for attending the program.
 - Valedictory Function of FDP
 - MOC by Srinivasa Murthy MK
 - Guest : Mr.Vijay T
 - Srinivasa Murthy MK welcomed guest and participants later summarized the proceedings of five day FDP.
 - Overall Result and Feedback Question and Answer session was conducted by all the resource persons.
 - Vote of tanks by Mr.Pradeep NB.