SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Taluk – 602117.

Department of Mechanical Engineering

THREE DAY WORKSHOP Report

on

NATIONAL WORKSHOP ON INDUSTRY 4.0

Venue	: FUNCTION HALL
Date	: 29.08.2019 to 31.08.2019
Time	: 09:00am to 12:15pm & 01:00pm to 03:15pm

Coordinator

Hod

Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117
Tamilnadu, INDIA

National Workshop on Industry 4.0   *29-31 August 2019*

Registration Form

Name:

Designation:

Name of the College/Company:

Address:

Phone Number:

Email id:

Place:

Date:

Signature

Programme Schedule

	FN	**AN**
Day 1 (29.08.2019)	Inauguration	**Session 3** Smart factories
	Session 1 Overview of Industry 4.0 through Siemens' Equipment	**Session 4** Overview of AI, ML, Big data and Cloud computing
	Session 2 Industry 4.0 Architecture	
Day 2 (30.08.2019)	**Session 5** Engineering Analytics	**Session 7** IoT Lab/ AI & Cloud computing Lab
	Session 6 IoT Lab/ AI & Cloud computing Lab	
Day 3 (31.08.2019)	**Session 8** Smart Manufacturing in Industry 4.0	Valedictory & Closing Ceremony
	Session 9 Design for Additive Manufacturing	
	Session 10 Digitization process in Saint Gobain	

SRI VENKATESWARA COLLEGE OF ENGINEERING
Internal Quality Assurance Cell (IQAC) and Department of Mechanical Engineering
Three day National Workshop on Industry 4.0

Programme Schedule		
Day 1(29/08/19)		
Forenoon	*Resource Person*	*Time*
Inauguration and address on Digitization	Chief Guest- Dr.S.Kalirajan, Head–Special Initiatives (Nuclear), L & T Construction Ltd.	9 A.M-10 A.M
Session 1 - Presentation on Overview of Industry 4.0 about Siemens Mechatronics - I 4.0 Kit.	Mr.Praveen Pai - Sr.Manager and Mr. Vigneshwaran - Engineer,Customer Services,Siemens India Ltd.	10 A.M - 11 A.M
Tea Break		11 A.M- 11.15 A.M
Session 2 - Industry 4.0 Architecture	Technical Consultant - I 4.0,TVS Training Centre,Chennai	11.15 A.M-12.15 P.M
Lunch Break		12.15 P.M - 1 P.M
Afternoon		*Time*
Session 3 - Smart factories	Technical Consultant - I 4.0,TVS Training Centre,Chennai	1 P.M - 2 P.M
Tea Break		2 P.M- 2.15 P.M
Session 4- Overview of Cloud computing,Artificial Intelligence,Machine learning,Bigdata and IoT	Dr.R.Anitha,HOD, Dept.of Computer Science and Engg.	2.15 P.M - 3.15 P.M
Closing for the day		3.15 P.M
Day 2 (30/08/19)		
Forenoon	*Resource Person*	*Time*
Session 5 - Case Studies on Engineering Analytics	Mr.R.Arjun,Gyandata,IITM-RP,Chennai	9 A.M-10 A.M
Tea Break		10 A.M - 10.15 A.M
Session 6 - IoT Lab/ AI & Cloud Lab	Dept. of IT / Dept. of CSE,SVCE	10.15 A.M- 12.30 P.M
Lunch Break		12:30 P.M- 1:30 PM
Afternoon		*Time*
Session-7 AI & Cloud Lab / IoT Lab	Dept.of CSE / Dept.of IT , SVCE	1.30 P.M-4.00 PM
Closing for the day		4.00 P.M
Day 3 (31.08.19)		
Forenoon	*Resource Person*	*Time*
Session 8 - Smart Manufacturing in Industry 4.0	Dr.K.Senthilkumaran,Asst.Prof. / IIITDM	9.15 A.M - 10:15 A.M
Tea Break		10:15 A.M- 10:30 A.M
Session 9 - Design for Additive manufacturing	Dr.K.Senthilkumaran,Asst.Prof. / IIITDM	10:30 A.M - 11:30 A.M
Session 10-Digitization process in Saint Gobain	Mr.Murali Chadrahasan,Head-INDEC 4.0, Saint Gobain,IITM-Research Park,Chennai	11.30 A.M-12.30 P.M
Lunch Break		12.30 P.M- 1.30 P.M
Valedictory & Closing ceremony		1:30 P.M - 2 P.M
Closing the workshop		2.00 P.M

National level workshop on Industry 4.0 organized by IAQC & Dept of Mechanical SVCE,
from 29.08.19 to 31.08.19

Coordinators:
Dr C Gopinath,Prof/MEC,SVCE,
Mr K Ramprasad, AP/MEC, SVCE &
Mr M Nishal, AP/MEC, SVCE.

Resource Person Details:
1. **Dr.S.Kalirajan, L&T -ECC, Chief Guest**
2. **Mr.PraveenPai,Sr.Manager and Mr. Vigneshwaran – Engineer- Customer Services,Siemens India Ltd**
3. **Mr.R.Arjun,Gyandata**
4. **Dr.K.Senthilkumaran,Asst Prof / IIITDM**
5. **Mr.MuraliChadrahasan,Head-INDEC 4.0, Saint Gobain**

Participation Details:
No of internal students from SVCE - 85
No of external students - 5
No of faculty from SVCE - 15
No of faculty from other colleges - Nil
Total No of participants for workshop - **105**

One page Write up about the program:

Industry 4.0 is an integrated approach to manufacturing that is centered in and around a computer system. The transition has become more popular with the rise in the quantity and quality of computer systems in manufacturing plants. It allows real-time inventory monitoring which allows companies to master their whole production line and intervene when it is necessary to adapt the product to the changing market.

The increasing digitization of industrial processes also across organizations sometimes labelled industry 4.0 or smart manufacturing, however, requires a more holistic and connected perspective. This workshop tends to address the basic question everyone is trying to answer is "Why do we need to evolve or adapt to Industry 4.0". This workshop addresses the need for Industry 4.0 by Industrial Experts from **SIEMENS, SAINT GOBAIN, L&T – ECC and TVS Training Centre**. Industries are also looking to incorporate Additive manufacturing within the

system to increase production for complex parts with reduced time; Professor from **IIITDM** gives a profound insight about Additive manufacturing. This workshop allow us to have the idea about the Architecture, framework and platform with basic coding involved in Industry 4.0, both theory and Practical Knowledge could be earned.

Star Performer Faculty Details:
Dr.S.Muniraj. Assistant Professor,SVCE, Mob: 9994042052

Star Performer Student Details:
V.Raaghul, III year -Mechanical, Mob:7395953445

ATTENDANCE SCANNED COPY:

Sheet1

S.NO	NAME	BRANCH	YEAR	SECTION	SIGNATURE
1	Lokeshwaran A	MECH	3	A	
2	Bharani G	MECH	3	A	
3	karthick Raja V	MECH	3	A	
4	Adarsh krishnaa V	MECH	3	A	
5	Justin Rejimone	MECH	3	A	
6	Che Ram Chandru S	MECH	3	A	
7	Balaji R	MECH	3	A	
8	Arun B	MECH	3	A	
9	Ashwin Anil	MECH	3	A	
10	Arun Eashwar RK	MECH	3	A	
11	Arun Balaji A	MECH	3	A	
12	Nishantan B	MECH	3	A	
13	Aniketh	MECH	3	A	
14	Dhanush B	MECH	3	A	
15	Giridaran T.C	MECH	3	A	
16	Balachandar P	MECH	3	A	
17	Abhishek Raja R	MECH	3	A	
18	Hari kumar P.	MECH	3	A	
19	Naveen S	MECH	3	A	
20	Gokul R	MECH	3	A	
21	Gagan Agarwal	MECH	3	A	
22	Ashwath R	MECH	3	A	
23	Akshay Mohan	MECH	3	A	
24	Akash D	MECH	3	A	
25	Dhruv S	MECH	3	A	
26	Naveen Kumar M	MECH	3	A	
27	Arun Nachiappan AR	MECH	3	A	
28	Nithish Kumar R	MECH	3	B	
29	Rohan Adhikari P	MECH	3	B	
30	Raaghul V	MECH	3	B	
90	P.Badaajan		Page 1	2	B
91	A.Augustin Emmanuel	Mech	5		
92	R. Sathiyadavi	Mech	3		
93	G.Govind	Auto	2		

SVCT * 91

3VC.T * 92

THREE DAY NATIONAL WORKSHOP ON INDUSTRY 4.0

29-31 AUGUST 2019

Organised by

Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering

Sri Venkateswara College of Engineering

(Autonomous - Affiliated to Anna University, Chennai) Pennalur, Sriperumbudur Taluk - 602 117

Date
August 29-31, 2019

Venue
Function Hall,
Sri Venkateswara College of Engineering

Contact

Dr. S. Gopinath
Professor/Mechanical,
IQAC Coordinator,
Mr. M. Nishal
Mr. K. RamPrasad
Mr. R. Ganesan
Assistant Professors
Department of
Mechanical Engineering

Email id: sgopi@svce.ac.in
044- 27152000 (Ext: 408) /
9445115107

Registration fee for Scholars, SVCE Faculty& Students - Rs 500

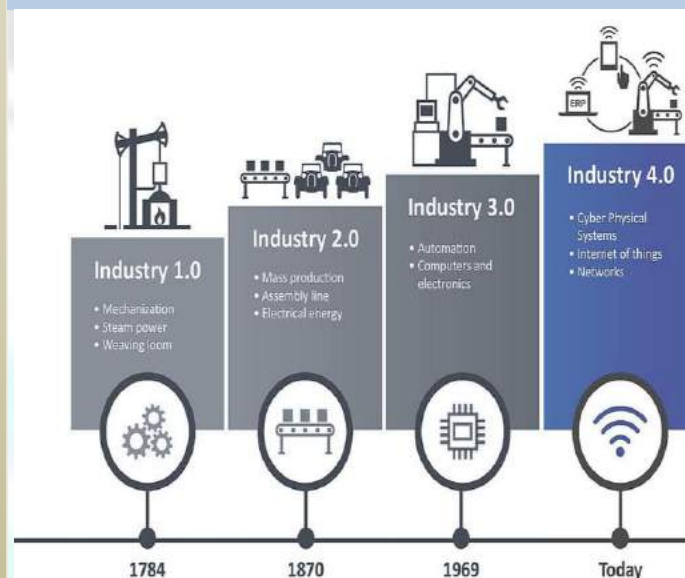*Other College Faculty – Rs 750*

Industrial Person - Rs 1000

SVCE is a unit of Sri Venkateswara Educational and Health Trust (SVEHT).The trust was founded on 1 August 1984 at the behest and benign blessings of His Holiness Pujashree Kanchi Kamakoti Peedathipathi Sri Jeyendra Saraswathi Swamigal. Dr.A.C.Muthaih a renowned engineer, industrialist and philanthropist, is the Chairman of the Governing Council of the college.

Internal Quality Assurance cell in SVCE is to facilitate a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.

The Department of Mechanical Engineering is one of the three major departments established right from the beginning of the College. The department has well experienced faculty and staff members of proven ability and administrative skills with well-equipped state-of-the-art laboratories.

Industry 4.0 is an integrated approach to manufacturing that is centered in and around computer system. The transition has become more popular with the rise in the quantity and quality of computer systems in manufacturing plants. It allows real-time inventory monitoring which allows companies to master their whole production line and intervene when it is necessary to adapt the product to the changing market.

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CONTENT COVERED

Importance of digitization, Overview of Industry 4.0.

Insight on Smart Factories.

Overview of cloud computing, AI, Machine Learning, Bigdata and IoT.

Engineering Analytics.

IoT, AI & Cloud Computing Practices (Hands on).

Additive Manufacturing.