

Department of Mechanical Engineering

THREE-DAY FACULTY DEVELOPMENT PROGRAMME

08 - 10, JULY 2021 10:00 AM ONWARDS

TECHNOLOGICAL ADVANCEMENTS IN NAVAL, DEFENSE & SPACE APPLICATIONS: AN INTEGRATED INDUSTRY 5.0 APPROACH

Model Analysis & Experiemntal Validation of Aerospace Applications, Engineering of Composite in Naval Applications, Control of Vibrations and under water noise for defense stealth Applications

CONVENOR (S)

DR. RAGHU RAM MOHAN REDDY, PROFESSOR OF MECH. ENGG. DR. V. V. RAVI KUMAR, ASSOCIATE PROFESSOR OF MECH. ENGG.

for your information, please write to the following email ID. Last date: July 07, 2021 Registration can be done through google form available in the official

ravikumar.me@nsrit.edu.in | -91 99943 09783 | www.nsrit.edu.in

NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY AUTONOMOUS | NAAC ACCREDITED





Dr. U. Urban Kumar

Scientist, NSTL, Visakhapatnam



DR. P. ANIL KUMAR

Scientist, Research Centre, DRDO, Hyderabad



Dr. V. Rama Krishna

Scientist, NSTL, Visakhapatnam **■** M Gmail

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Thu, Jul 8, 2021, 9:54 AM





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Categories

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Personal

Dr. Naveen <naveen.me@nsrit.edu,in>

to HOD, ravikumar.me, V, DIRECTOR, secretary.nsrit, PRINCIPAL, krnsrit, bcc: me

Greetings of the Day!

Dear Participants, Thank You all for registering for the THREE-DAY Faculty Development Programme on "Technological Advancements in NAVAL, DEFENSE & SPACE APPLICATIONS: AN INTEGRATED INDUSTRY 5.0 APPROACH" from 08-10, July 2021.

Here we attaching the login credentials and WhatsApp link for better communication.

Certificate of participation/ E-certificate will be provided based on the attendance of the participants only.

Registration Link:

https://forms.gle/8HAAi4UGAtQ17THB6

Online mode credentials

Zoom meeting link:

Dates: 8th to 10th July 2021.

Time: @ 2PM to 4PM

https://us04web.zoom.us/j/77318121118?pwd=SEhDS1RRRWswOTZLZIJXazlCcTAwUT09

MeetingID:77318121118 Pass code: DEPTME



NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)



(Approved by AICTE, New Delhi II Affiliated to JNTUK, Kakinada II An ISO 9001, ISO 14001 & ISO 45001 Certified Institution)

Recognized under 2(f) of the UGC Act 1956 II Accredited by NAAC with 'A' Grade (3.10/4.00)

SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824167, 8099464546, www.nsrit.edu.in

Organized by

Department of Mechanical engineering

Three Days National Level Faculty Development Programme on Technological

Advancements in Naval, Defense and Space Applications - An integrated Industry 5.0

Approach

08-10th July-2021

Department of Mechanical Engineering has conducted three days National level FDP on "Technological Advancements in Naval, Defence and Space Applications- An integrated Industry 5.0 Approach". First day (08-07-2021), Lecture by chief guest Dr. P. Anil kumar, Scientist F & Director, Research Center, Imarat, DRDO, Hyderabad. Guest lecture on (14.00pm- 16.00pm), Modal analysis & experimental validation of Aerospace applications, Second Day (09-07-2021) Second Guest Lecture by Dr. U. Urban Kumar, Scientist 'D' NSTL, VSKP. Guest lecture on (14.00pm – 16.00pm), Engineering of composites for navy. Third Day (10-07-2021) Third Guest Lecture by Dr. V. Rama Krishna, Scientist 'E' NSTL, VSKP. Guest lecture on (14.00pm - 16.00pm), Control of Vibrations and under water noise for defense stealth Applications. In valedictory certificates distributed to the participants faculties from Mechanical department were participated in the workshop.



Search in mail









3 of 2,649



99+

Compose

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More

Labels

NO Registration FEE

Registration Link:

https://forms.gle/Pdo1vx7MDBk78o7o8

Online mode credentials

Topic: Webinar on Additive Manufacturing of Ceramic Materials

Time: Sep 3, 2021 02:00 PM India

Join Zoom Meeting

https://zoom.us/j/98475320181?pwd=ZWoyVWVWR21uZWVmeStOZ1pwcjVWdz09

Meeting ID: 984 7532 0181

Passcode: 56YLSr

Thanks and regards

Dr. V. V. RAVI KUMAR, M.TECH, PhD.

R & D COORDINATOR (INSTITUTION)

DEPARTMENT OF MECHANICAL ENGINEERING

NS RAJU INSTITUTE OF TECHNOLOGY (Autonomous)

Recognized as 'A' Grade by Govt. of AP

Recognized Under Section 2 (f) and 12B of the UGC Act, 1956

Accredited by NAAC with 'A' Grade (3.10/4.00) Sontyam, Pendurthi-Anandapuram Highway,

Visaskhaptnam - 531173.



AUTONOMOUS | ACCREDITED BY NAAC WITH 'A' GADE MECHANICAL ENGINEERING



MR. JAI PRAKASH
SCIENTIST - E IFCS DIRECTORATE
AERONAUTICAL DEVELOPMENT AGENCY
BANGALURU, KARNATAKA

ENGINEER'S DAY

CELEBRATIONS

WEBINAR

FLIGHT CONTROL ACTUATORS

SEPTEMBER 15, 2021, 04:30 PM

Recourse person's brief bio-data:

- 1. Graduated from JNTU College of Engineering in Mechanical engineering
- 2. Holds a PGDCA in E Commerce from JNTU
- 3. Master of Engineering from **Indian Institute of Science**, Bangalore

Started career as Maintenance Engineer in NFCL, Kakinada, AP

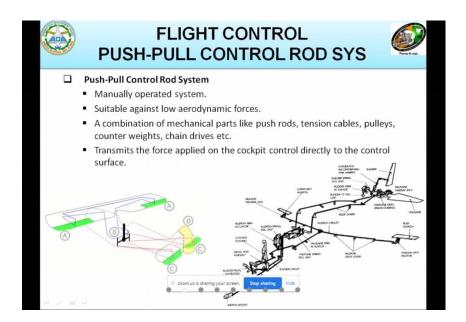
Thereafter served as Jr. Works Manager in Indian Ordnance Factories. Designed and Developed several products under in-house R&D scheme for Indian Armed forces, viz. Remote control weapon stations, Armoured vehicles, Close Range Naval Gun, etc

Since 2008, have been serving in one of DRDO's autonomous bodies meant for design and development of Fighter Aircrafts, viz. Aeronautical Development Agency

Topic: A preliminary understanding of Flight Control Actuators and their evolution.



Email: jaiprakash@jetmail.ada.gov.in



Participants:

From NSRIT – Mechanical Engineering Department – III year – 60 Students

All Mechanical Engineering Department faculty- 16 Faculty

The resource person covered the basics of Mechanical Engineering and Electrical Engineering and correlate the applications of commercial flights and fight flights.



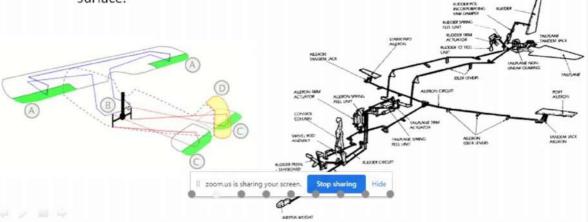
FLIGHT CONTROL PUSH-PULL CONTROL ROD SYS



☐ Push-Pull Control Rod System

- Manually operated system.
- Suitable against low aerodynamic forces.
- A combination of mechanical parts like push rods, tension cables, pulleys, counter weights, chain drives etc.

 Transmits the force applied on the cockpit control directly to the control surface.





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DEPARTMENT OF MECHANICAL ENGINEERING NX CAD ESSENTIALS Registered List

	SSENTIALS Registered List			
	Student Name			
	AYENAMPUDI NITHIN VARMA			
	BANDARU SAGAR			
20NU1A0303	CHANDA JAGADEESH KUMAR			
20NU1A0304	DAKETI LEELA SAI KIRAN			
20NU1A0305	DARA VIVEK			
20NU1A0307	DASARI SRAVANA LAKSHMI			
20NU1A0308	DIVYA PRAKASH KUMAR			
20NU1A0309	DOKKARI MOHAN			
20NU1A0310	DOPPA ROSHAN SOWRI			
20NU1A0311	DUVVI PRANEETH VARDHAN			
20NU1A0312	DWARAPUREDDY VEERA VENKATA SAI ABHISHEK			
20NU1A0313	GONTHINA BHASKAR			
20NU1A0314	GORLE JAYA KRISHNA			
20NU1A0315	GORLE KUSHAL			
20NU1A0316	GORRIPOTU ANIL KUMAR			
20NU1A0317	JEERLA LIKHIN KUMAR			
20NU1A0318	KOVELAPALLI AJAY KUMAR			
20NU1A0319	KILARI JAGAN JEEVAN KUMAR			
20NU1A0320	KINCHA SHYAM KRISHNA			
20NU1A0322	KOKKERLAPATI SUDHEEP VARMA			
20NU1A0323	KOLA VENKATA RAO			
20NU1A0325	KORADA SAI PRASAD			
20NU1A0326	KUTCHARLAPATI CHANDRAMOULI VARMA			
20NU1A0327	M GEETA SAI PRASAD			
20NU1A0328	MAJJI JOGESH			
20NU1A0329	MASADA DIVAKAR			
20NU1A0330	MUMMANA DINESH			
20NU1A0331	MUNJETI YOGENDRA			
20NU1A0332	NAKKA NAVEEN			
20NU1A0333	NERELLA DURGA PRASAD			
20NU1A0335	PENTAKOTA DEVI SIVA PRASAD			
20NU1A0336	PILLA NAVEEN			
20NU1A0337	PITLA NAVEEN			
20NU1A0338	PONTHAPALLI YAJNESWAR			
20NU1A0339	RAYAVARAPU SAI KIRAN			
20NU1A0340	RANGASALA ARUNKUMAR			
	Roll.No 20NU1A0301 20NU1A0302 20NU1A0303 20NU1A0304 20NU1A0305 20NU1A0307 20NU1A0308 20NU1A0309 20NU1A0310 20NU1A0311 20NU1A0312 20NU1A0313 20NU1A0314 20NU1A0315 20NU1A0316 20NU1A0317 20NU1A0318 20NU1A0319 20NU1A0319 20NU1A0320 20NU1A0320 20NU1A0320 20NU1A0320 20NU1A0323 20NU1A0325 20NU1A0325 20NU1A0325 20NU1A0326 20NU1A0327 20NU1A0328 20NU1A0329 20NU1A0330 20NU1A0331 20NU1A0331 20NU1A0333 20NU1A0333 20NU1A0335 20NU1A0335 20NU1A0337 20NU1A0338 20NU1A0338			

37	20NU1A0341	SEELA LAKSHMI CHANDRA EKANTH
38	20NU1A0342	SIMMA MOHAN KUMAR
39	20NU1A0343	SIRIPURAPU MANOJ KUMAR
40	20NU1A0344	SOURASISH TALUKDER
41	20NU1A0346	TEDLAPU LIKHITH V S G B SARAN
42	20NU1A0347	TEEGALA PRUDHVI GUPTA
43	20NU1A0348	TIRUMAREDDY RAJESH
44	20NU1A0349	VIJANAGIRI MANI VARA PRASAD
45	20NU1A0350	YALLA ROHITH
46	20NU1A0351	YANDRAPU JAGADEESH
47	20NU1A0352	YEDURU SAMPATH SAI
48	19NU1A0322	N RAJEEV LOKESH
49	19NU1A0323	PYLA RAJA
50	19NU1A0325	SARAGADAM RAJ KUMAR
51	20NU5A0325	DOGGA BALAVENKATA KISHOR
52	20NU5A0357	MIRTHIPATI SUDHEER
53	20NU5A0362	NASRAT BHANU
54	20NU5A0366	PATCHIKORA YERRI NAIDU
55	20NU5A0367	PATNANA VAMSHI
56	20NU5A0370	POLIDASU NAGARAJU
57	20NU5A0373	RAVUPALLI VISWATEJA
58	20NU5A0378	SEKHARAMAHANTI BHARATH KUMAR



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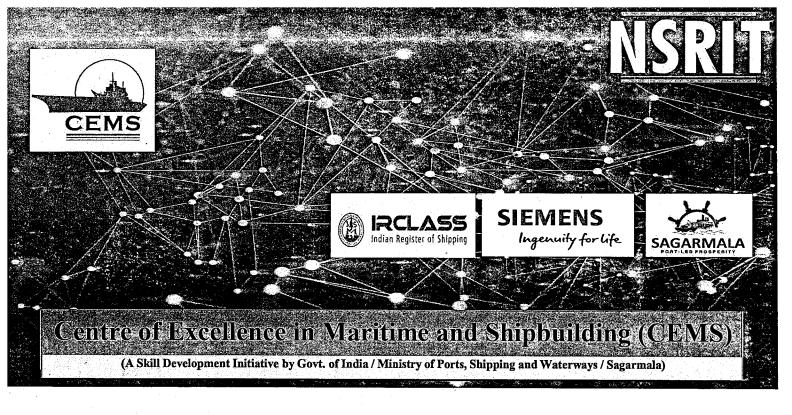
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(Approved by ASTE, New Order Extrance to Julius, *LANDALE ANSO 2001-190 14001 6-000 Central institution Reportized United 3(f) of the UGC Act 1936 8 Approvided by NAAC with 'A' Grade (3.16/4.00) SCNTYAM, Pendurths-Anandapuran Highway, Visakhapatnam - 831173, Ph.: 9885824167, 8099464548, www.narst.odu.in

DEPARTMENT OF MECHANICAL ENGINEERING Mechatronics Registered List

Roll.No 20NU1A0301 20NU1A0302 20NU1A0303	Student Name AYENAMPUDI NITHIN VARMA BANDARU SAGAR		
20NU1A0302			
	BANDARU SAGAR		
20NU1A0303	BANDARU SAGAR		
	CHANDA JAGADEESH KUMAR		
20NU1A0304	DAKETI LEELA SAI KIRAN		
20NU1A0305	DARA VIVEK		
20NU1A0307	DASARI SRAVANA LAKSHMI		
20NU1A0308	DIVYA PRAKASH KUMAR		
20NU1A0309	DOKKARI MOHAN		
20NU1A0310	DOPPA ROSHAN SOWRI		
20NU1A0311	DUVVI PRANEETH VARDHAN		
20NU1A0312	DWARAPUREDDY VEERA VENKATA SAI ABHISHEK		
20NU1A0313	GONTHINA BHASKAR		
20NU1A0315	GORLE KUSHAL		
20NU1A0316	GORRIPOTU ANIL KUMAR		
20NU1A0319	KILARI JAGAN JEEVAN KUMAR		
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20NU1A0322	KOKKERLAPATI SUDHEEP VARMA		
20NU1A0326	KUTCHARLAPATI CHANDRAMOULI VARMA		
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20NU1A0344	SOURASISH TALUKDER		
20NU1A0346	TEDLAPU LIKHITH V S G B SARAN		
20NU1A0347	TEEGALA PRUDHVI GUPTA		
20NU1A0348	TIRUMAREDDY RAJESH		
20NU1A0350	YALLA ROHITH		
20NU1A0351	YANDRAPU JAGADEESH		
	20NU1A0307 20NU1A0308 20NU1A0309 20NU1A0310 20NU1A0311 20NU1A0312 20NU1A0313 20NU1A0315 20NU1A0316 20NU1A0319 20NU1A0320 20NU1A0320 20NU1A0322 20NU1A0322 20NU1A0332 20NU1A0333 20NU1A0334 20NU1A0335 20NU1A0336 20NU1A0338 20NU1A0339 20NU1A0339 20NU1A0340 20NU1A0340 20NU1A0341 20NU1A0342 20NU1A0343 20NU1A0344 20NU1A0346 20NU1A0347 20NU1A0348 20NU1A0350		

27	2011114 4 0 2 5 2	YEDURU SAMPATH SAI			
37	20NU1A0352				
38	21NU5A0301	BAKI SANKAR RAO			
39	21NU5A0302	BONELA GANESH			
40	21NU5A0303	BONULA PRABHU PAVAN			
41	21NU5A0304	DODDI UDAY BHASKAR			
42	21NU5A0305	GANAGALLA VEERANAND			
43	21NU5A0306	GANTLA ATCHUTH			
- 44	21NU5A0307	GOLAGANI BHANU PRASAD SAI			
45	21NU5A0308	GUGGILAM RAKESH			
46	21NU5A0309	JAGARAPU RAKESH			
47	21NU5A0310	KARRI SAI TEJA			
48	21NU5A0311	KORADA VENKATESH			
49	21NU5A0312	MOHAMMAD BASHEERUDDIN			
50	21NU5A0313	PASANABILLI MOHAN			
51	21NU5A0314	PENTAKOTA VAYUNANDA SAI KUMAR			
52	21NU5A0315	PULAMARASETTI GIRIDHAR			
53	21NU5A0316	SARVASUDDI LOKESH			
54	21NU5A0317	SOURAV DAS			



This is to certify that Mr. /Ms. BANDARU SAGAR

B. Tech II Year of Mechanical Department having Roll No. 20NU1A0302 from

Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT), Vizag has successfully

Completed One Credit Course with Industry Oriented Training on Mechatronics

Conducted by

Centre of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam

from 5th March 2022 to 4th June 2022

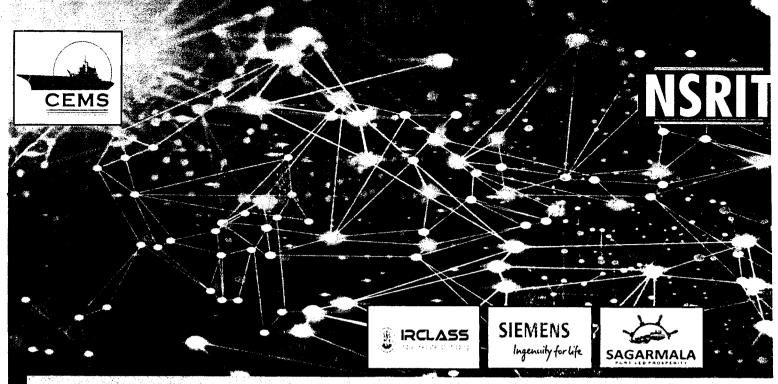
Place: Visakhapatnam

Date: 16th June 2022



Authorized Signatory

Cdr. Gopikrishna Sivvam, IN(Retd.)
Chief Operating Officer-CEMS



Centre of Excellence in Maritime and Shipbuilding (CEMS)

(A Skill Development Initiative by Govt. of India / Ministry of Shipping / Sagarmala)

This is to certify that Mr /Ms. N. RaJeevi Lokesh	studying
B.Tech. N. Semester of McChanical Department having REGD No. 19. N.U.	IA032
From Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT	'), Vizag
Has successfully completed One Credit Course with Industry Oriented Tra	ining on
Essentials for XX Designers	

Conducted by

Centre of Excellence in Maritime and Shipbuilding (CEMS), Gandhigram, Visakhapatnam

From 2.3/10/2021 to 18/12/2021

Certificate No: AP/VIZ/4002/10-2021/0404

Date:

18/12/2021

Authorized Signatory

Cdr.Gopikrishna Sivvam,IN (Retd.) **Chief Operating Officer-CEMS**



Week	Monday	Tueso (Online So	day essions)	Wednesday	Thursday	Friday	Saturday	Sunday
Week – 1		16th Nov 2021 Mechatronics and Robotics 1			Indian faculty (as per their flexibility) IGUS Robotics and Applications of Cobots	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week – 2		23rd Nov 2021 Mechatronics and Robotics 2	30th Nov 2021 Mechatronics and Robotics 2 (Repeated Session)		Indian faculty (as per their flexibility) Cobots and Robolink technology 1 CPRog Controller	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 3		2nd Dec 2021 Applications of Industrial Robots Tools)			Cabot's and Robolink technology 2 End-arm Tooling using IGUS robots, <u>Robot</u> <u>Programming</u>	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 4		7th Dec 2021 Low Cost Automation Control of robot work by PLC fundamentals.			Indian faculty (as per their flexibility) Robot Programming, I/O and communication	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 5		14th Dec 2021 Low Cost Automation IGUS Robots (advanced): Sensor-controlled Robot work			Indian faculty (as per their flexibility) Robot application 1: Pick& Place	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 6		21st Dec 2021 Low cost Automation Applications		Indian faculty (as per their flexibility) Robot Application 2: Robot/Robot collaboration	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning	

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week - 7		18th Jan 2022 Introduction to PLC controls, Sensors with Automation Application 1		ARC Indian faculty/IES Faculty online PLC and Control Based application 1	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week -8		25th Jan 2022 Introduction to PLC controls, Sensors with Automation Application 2		ARC Indian faculty/IES Faculty online PLC and Control Based application 2	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week – 9		1st Feb 2022 Industry 4.0 and its Applications -1		ARC Indian faculty/IES Faculty online PLC and Control Based application 3	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 10		8th Feb 2022 Industry 4.0 and its Applications -2		Task/Project implementation	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 11		15th Feb 2022 Digital Twin and AR and VR Applications		Task/Project implementation	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning
Week - 12		22nd Feb 2022 Including and AR and VR Applications and Smart Manufacturing		Task/Project implementation	IES Faculty/ Online Faculty/ Lab	IESF/OF/Lab	Self Learning

^{*}The schedule for 2nd half of the program will be confirmed as per the college academic calendar.

*All the online sessions will be conducted every Tuesday at 2 - 4 PM IST



NADIMPALLI SATYANARAYANA RAJU NAAC **INSTITUTE OF TECHNOLOGY**



(AUTONOMOUS)

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Recognized unider 2(1) of the UGC Act 1996 8 Accessited by NAAC with "A" Centre (3.1974 00)

50 HTYAM, Pendurthi - Anundepuram Highway, Visakhapatham - 531173, Ph (9885024187, 8099-164548, www.nsrit.odu.in

DEPARTMENT OF MECHANICAL ENGINEERING **Applied Robotic Control Registered List**

Si.No	Roli.No Student Name		
1	18NU1A0314	CH YESWANTH	
2	18NU1A0357	SABBAVARAPU SASI PREETHAM	
3	19525A0368	VANAPALLI GANESH	
4	19NU5A0309	CHARAKAM VEERA DESHIK	
5	19NU5A0311	DAMMU SATEESH	
6	19NU5A0315	DWARAPUDI ASHOK	
7	19NU5A0325	JAGARAPU LEELADHAR	
8	19NU5A0326	KADIRI. TARUN TEJA	
9	19NU5A0338	MAKENA VENKATA MAHESWARA PATRUDU	
10	19NU5A0341	NAKKA NARENDRA YADAV	
11	19NU5A0345	PEETAMBARAM RAM PRASAD	
12	19NU5A0362	Y.SIVASRI NAIDU	
13	18NU1A0301	ADAPA VEERA PHANENDRA SAI VARDHAN	
14	18NU1A0306	BANDARU.YOGESH	
15	18NU1A0316	DIYYA.HEMANTH KUMAR	
16	18NU1A0319	DONA VAMSI	
17	18NU1A0320	GAMPA KRUPA RAJ	
18	18NU1A0327	GORAPALLI KARTHIK VARUN	
19	18NU1A0328	INDALA SAMPATH	
20	18NU1A0331	KANNURI SHYAM SEKHAR	
21	18NU1A0339	KOTHURTHI.SRIKANTH	
22	18NU1A0342	MERUGULA PRASAD	
23	18NU1A0343	MUKKALA SHANKAR	
24	18NU1A0344	NAMBURI.CHANDRA DEEP VARMA	
25	18NU1A0360	SHAVUKARU VENKATA YASWANTH KUMAR	
26	18NU1A0362	SIVARATHRI DILEEP KUMAR	
27	18NU1A0366	VEDULLA SUNIL	
28	18NU1A0368	VIVEK KUMAR	
29	19NU5A0322	GUDLA MANIRAM	
30	19NU5A0343	PAWAN GOPAL	
31	19NU5A0361	V SWAMY	
32	20NU5A0318	CHITTURI KARTHIK	
33	20NU5A0342	KANDREGULA CHANDRA KIRAN	



Andhra Pradesh State Skill Development Corporation (APSSDC)
Indo-Euro Synchronization (IES)

CERTIFICATE OF APPRECIATION

This certificate is awarded to Mr./Ms. Namburi Chandra Deep Varma of

Nadimpalli Satyanarayana Raju Institute of Technology for successfully completing the Internship in Advance certification on Emerging Technologies During November 2021 - March 2022



Knowledge Partners:



FESTO

V.V.N Raj
CEO
Indo Euro Synchronization

D.V. Rama Koti Reddy

Executive Director APSSDC S. Satyanarayana

Managing Director
APSSDC

(Approved by AICTE, New Delhi II Affiliated to JNTUK, Kakinada II An ISO 9001,ISO 14001 & ISO 45001 Certified Institution)

Recognised under Section 2 (f) & 12B of the UGC Act,1956 II Accredited by NAAC with 'A' Grade (3.10/4.00)

■ B.Tech ■ M.Tech ■ MBA ■ Diploma ■ url:www.nsrit.edu.in ■ Email:office@nsrit.edu.in

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT ON SKILL-ORIENTED COURSE

The Department of Mechanical Engineering introduced a skill-oriented course for B.Tech. III Semester Computer Aided Modelling from 18-10-2021 to 05-02-2022 and B.Tech. IV Semester Computer Numerical Control Programming from 28-02-2022 to 04-06-2022. It was conducted as per the curriculum

Course Outcomes - Computer Aided Modelling (20MES01):

- 1. Recollect the various part designs with 2D and 3D tools.
- 2. Elucidate 3D tools and various assemblies with different approaches.
- 3. Develop automotive parts and assemblies with various sheet metal parameters and constraints.

Course Outcomes - Computer Numerical Control Programming (20MES02):

- Delineate the operation sequence and route sheet for given mechanical parts.
- 2. Exemplify the selection criteria for CNC machines by describing principle, operation, procedural steps for different tooling.
- 3. Load the part program with interface software application for automatic part programming.