3.7.2 Number of functional MoUs with institutions/industries in India and abroad for internship, on-the-job training, I

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MOU year wise	Number of students/teachers participated under MoUs
Enturale Technologies	Sri Venkateswara			Five day workshop on VLSI Circuit Design	40
Entuple Technologies Pvt. Ltd	College of Engineering	2021	3 Years	2. One week Faculty development on "VLSI Circuit Design using Cadence Tools"	30
Hyderabad Institute of Electrical Engineers	Sri Venkateswara College of Engineering	2021	3 Years	Five day workshop on Digital Image Processing Techniques	40
Sri Shashya Prayathi Technologies Pvt. Ltd., NITK-STEP	Sri Venkateswara College of Engineering	2022	3 Years	Five day workshop on Signal Processing Techniques Using MATLAB	40
Takshila Institute of VLSI Technologies	Sri Venkateswara College of Engineering	2024	5 Years		
Bhairav Industriees, Pump & Motor Manufacture in	Bhairav Industriees, Pump & Motor Manufacture in	2022	5 Years	2	1100
Magic Bus India Foundation	Sri Venkateswara College of Engineering	08.02.2024	08.02.2024	Nil	
Assistive CADD,Tirupati	Sri Venkateswara College of Engineering	10.01.2024	08.01.2025	A Two-Day workshop on "2D Drafting & 3D Modeling using AutoCAD, SketchUp"	50
Construction Management Training Institute	Sri Venkateswara College of Engineering	17.11.2023	3 years	Nil	
Hyperpixel Robotics Pvt.Ltd	Sri Venkateswara College of Engineering	08.11.2023	5 years	Provided Internship for students	3

	Sri Venkateswara				1
ExcelR Edtech Pvt Ltd	College of Engineering	12.10.2023	Continuing	Nil	
APSSDC	Sri Venkateswara College of Engineering	2022-23	Continuing	Workshop on CATIA V5	40
Sri Vignan Technologies	Sri Venkateswara College of Engineering	14.09.2022	Continuing	Skill oriented training with job role of Additive Manufacturing (3D Printing)	25
Magic Bus India Foundation, 3rd Floor, Reliable Plaza, Thane - Belapur Rd, Airoli, Navi Mumbai, Maharashtra 400708	2/8/2024	1/2/2025	Skill Development programs and Job placements	Soft skills development program for 6 batches (details are with Jain)	265
Securities Markets (A Capacity Building Initiative of SEBI) lot No. IS 1 & 2, Patalganga Industrial Area, Mohopada, Tal. Khalapur, Dist. Raigad, Maharashtra	4/29/2024	4/29/2027	Capacity building in securities market and Job placements	1	260
Way Foundation Door No 7-41, Upparapalli, Thummalagunta, Tirupati – 517502,	6/5/2024	6/5/2027	community development projects, volunteer opportunities,	1.Nenu Meeku telusa on 28-12- 2023 2. Human rights day on 10-05- 2024	500

Rashtriya Seva			community		
Samithi (RASS)			development		
office Seva Nilayam,			projects,		
Annamaiah Marg,	5/2/2024	5/2/2026	volunteer	1. Visit to Rass on 02-05-	45
AIR Bypass Road,	5/2/2024	5/2/2026	opportunities,	2024	45
Tirupati – 517 502,			workshops and		
Tirupati District,			training		
Andhra pradish			nrograms as		
			Continuing- Until		
SVCE	BrightGeeks	Jan-23	either of the		
			parties		
			Continuing- Until		
SVCE	Excel-R	Dec-23	either of the		
			parties		
SVCE	IEEE Hyderabad	Sep-21	Son 22		
SVCE	Section - Skill Connect	3eh-51	Sep-23		



SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.

Accredited by NBA (B. Tech – CIVIL, CSE, ECE, MECH, EEE & IT) NAAC with 'A' Grade
Approved by AICTE, New Delhi, Permanently affiliated to JNTUA, Ananthapuram.

Department of Mechanical Engineering

Workshop

on

"CATIA V5"

Date: 25.09.2023 to 30-09-2023

Targeted Students: IIIrd Year

Resource Person with

Designation:

Ms. Sumohana

APSSDC Trainer



(Autonomous)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507. Accredited by NBA (B. Tech – CSE, ECE, EEE, Mech., Civil and IT) & NAAC with 'A' Grade Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuram.

Department of Mechanical Engineering

Role on Event Conducted

Title of Event

CATIA V5

Date of Event Conducted

25.09.2023 to 30.09.2023

Type of Event

Workshop

Description:

A One Week (i.e 25.09.2023 to 30.09.2023) Workshop is conducted in Association with APSSDC for IIIrd Year Mechanical Engineering students about CATIA V5. Students thoroughly participated and gain knowledge like Introduction about CATIA V5, Sketching, Part Design, Assembly Design, Drafting etc. Students got value addition through this workshop and enhance the chances to get jobs like Design Engineer, R&D, Product Development etc.

Objectives of the Workshop

- 1. To impart fundamental knowledge about Catia V5 Sketcher, Part Design, Assembly Design, Drafting etc.
- 2. Explain the design concepts for various complicated parts.
- 3. Hands on practice various complicated shapes etc.











కెదీయూ-వి5పై లవగాహన కర్పిస్తున్న దృశ్యం

ఎస్విసిఈలో కెటియూ-వి5పై వర్క్షేషాప్

ప్రజాశక్తి-తిరుపతి(మంగకం): తిరుపతి–కరకంబాడీ మార్గంలోని ල් බංණ්ඩ්ණුර පැව්සි ఆఫ్ ఇంజినీరింగ్లో గత ఆరు రోజుల పాటు ఎస్విస్ట్ ఈ – ఏపిఎస్ఎస్డిసి సంయుక్తంగా కెటియూ -వి5' అంశంపై కంప్యూ టర్ (పయోగశాలలో శిక్షణ ఇచ్చారని కశాశాల డిన్నిపా ల్ దాక్టర్ ఎస్.సుధాకర్రెడ్డి తెలిపారు. ఈ వర్క్ష్ ప్రాపేష్ట్లు స్టాప్ స్ట్రాప్ స్ట్రాప్ సిస్ట్లమ్ శిక్షకులు జి.సుమోహనా హాజరై విద్యార్థులకు భవిష్యత్తులో కంప్యూటర్స్ తో చేసే ప్రయోగాల వల్ల కలిగే ఉద్యోగ ఉపాధి అవకాశాలను వివరించారు. డ్రిన్సిపాల్ సుధాకర్రెర్డి మాట్లాడుతూ ఇటువంటి వర్క్షపాప్లను విద్యార్థులు చక్కగా సద్వినియోగం చేసుకొని కళాశాల ద్వారా నిర్వహించే క్యాంపస్ సెలక్షన్స్ల్లో బహుళజాతి కం పెనీలలో ఉద్యోగాలు పొందే అవకాశం ఉందన్నారు. ఈ కార్యక్రమంలో విభాగాధిపతి డాక్టర్ ఎమ్ చంద్రశేఖర్ రెడ్డీ, విభాగ అధ్యాపకులు కె.హర్షవర్డన్ రెడ్డ్. డి. అంజన్ కుమార్ రెడ్డి పాల్గొన్నారు.

ఎస్వీసిఈలో ముగిసిన కెటియా వి5పై వర్కేషాష్

తిరుపత్రివిద్య) సెప్టెంబర్ 30 స్థ్రహతవార్త:



శిక్షకుడు జి.సుమోహనా విచ్చేసి కెటియా వి అంశం? ్యార్థులకు కంప్యూటర్ ల్మాబ్ నందు. శిక్షణ ్రా మంచి అవగాహన కల్పించారు.అంతకు ముందు కార్చమం ప్రారంభ ఉదన్యాసంలో భాగంగా కళాశాల డిన్నిపాల్ డాబెన్.సుధాకర్రెడ్డి మాట్లాడుతూ ఓా సులు ఆకడమికే నీలబసేకు ఆనుసుధానమైన 'టవంటి కంప్యూటర్ వరిజ్ఞానాన్ని విద్యార్థి దశలో కలిగి ఉండాలి.తద్వారా జహాంశజాతి సంస్థలో ్యాంచన్ రిక్రూటిమెంట్ ద్వారా ఉద్యోగాలకు ఎంఓ్ వచరానికి పూర్తి స్థాయిలో అవకాశం ఉంటుంద న్నారు.ఆనంతరం మెకానికల్ ఇంజనీరింగ్ విభాగా. త దాబం.చంద్రవేశుర్**రికి మా**ట్లాడుతూ తమ విధాగంలో విద్యార్థులకు ఆకడమిక్ సిలబసీతో పాట: ్స్తోగ ఆవరావాలకు ఆవసరమైనటువంటి కంఫ్స్ టర్ వరిజ్ఞానాన్ని వివిధ చర్యపావులు.కోర్పుల ద్వాగా అందించడం జరుగుతోంచన్నారు.ఈ కిక్షణ విధా గపు అధ్యావకులు కె.హర్షవర్లనొండ్లి.డి.అంజన్కుమాక్ మాల్డాని నమస్వయ కర్తలగా వ్యవహరిం బారం

స్తానిక కరకంబాడి ్షులోని ్రీ వెంకటేశ్వర ఇంజనీరింగ్ కళాశ నందు ఈనెల మెక*్ ల్* ఇంజనీరింగ్ విభాగంలో బిబెక్ మూచవ సం విద్యార్తులకు ఈసెల 26 నుండి 6 రోజుల పాటు కెటియా వి5 అసే ిరింగ్ కాలేజ్-ఆంధ్రపదేశ్ స్టేట్ డెవలప్ మెంట్ నిర్వహించిన వర్స్ట్రఫాప్ .50TP తరగతులు)కనివారంలో ముగిపాయి.ఈ వర్స్ట్రఫాప్స్ ుఖ్య ఆతిధిగా ఎప్పిస్పోసిడీసీ వసార్ల్ సిస్టమ్

Beneficiaries: III Year Students

Outcome attained through this program.

PO1: Engineering knowledge: Applying engineering knowledge in a workshop using CATIA V5, a popular computer-aided design (CAD) software, involves creating, modifying, and analyzing 3D models of various complex engineering components and systems.

PO3: Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO5: Modern Tool usage: CATIA V5 is a robust and versatile computer-aided design (CAD) software that can be used effectively in various modern workshop applications. To maximize its utility, you can integrate CATIA V5 with other modern tools and technologies like CAM, FEA, 3D Printing etc.

PO6: The Engineer & Society: Engineers using CATIA V5 can incorporate principles of sustainability into their designs. This includes reducing material waste, optimizing energy efficiency, and considering the environmental impact of products.

PO7: Environment & sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSO1: Ability to apply the knowledge in Thermal Sciences, Design and Manufacturing processes towards the improvement of engineering systems considering productivity, quality, and cost.

PSO2: Ability to analyze and apply the acquired Mechanical Engineering Knowledge for the sustainable growth of society and self.

Faculty In Charge

/ / //// (HoD/Mech)

DEPARTMENT OF MECHANICAL ENGINEERING SV COLLEGE OF ENGINEERING KARAKAMBADI ROAD, TIRUPATI - 517 507



(AUTONOMOUS)

(Approved by AICTE | Accredited by NAAC with 'A' Grade | Accredited by NBA (CSE, ECE, EEE, CE, ME & IT) | Permanently Affiliated to JNTUA) Karakambadi Road, Tirupati - 517 507

Press Note

30-09-2023

2 द्वी उत्तर क्षेट्र प्रथ स्रिक्ष ज्या अवर प्रथ स्थित के के के के के दिला - 32 क्षेत्र किन्ना इस्तिवन्त्र क्ष्या ।

202 Albor क्रिक्टिक के कार्य का कार्य के कार्य 7 18050 - 85 (CATIA - V5) POR POOTOZ 72020 25 20028 305 एम क्षरा २९६० २९१ चे० दूरा 12/ 20x 3/80x 50 3/2 _ a. 2. 22. a. 2. 2. 2. 6. 2. సంయక్షణ విర్ణక్షణం చెందు.

దు వర్మాండ్ కు ఎ.పి.ఎ.ప్.ఎ.పి.పి.పి.పి.పి.పి కేక్షకులు జి. సుమోయానా కౌటియా - పిక టింకండై పిజ్యాడ్డులు కంట్ర్యాటర్ (పండూగ్ మెలల్ కిక్షన్ నాడ్) మేంగెకి టీవనం హాన కట్టింబుంచు.

कि उठ हैं हि कार के हैं है कि किए हैं है के कि की कि है कि कार के किए के कार्य के कि कि कार्य के कि कार के कि విజ్నార్మలు లికడమిక్ పిలబాప్కి అనుసంధారిన ప్రైవేటువంట కంట్ర్యాటర్ పరిజాం నంన్ని కిజ్నార్జి కకటినే లివనాడున కటెగ్ కృండటం వ్యారా బచ్చాళటాడి సంస్థలలు క్యాంప్స్ . 8 ಕೂಟ ಮಂಚ ದ್ವಾರಾ ಕರ್ನೆಗಾಲಲ ಎಂಪಿಕ ತಾವಲಾ ಸಿಕ್ ಮಲ್ಲಾನ ಮಾಕ್ಷಮ, ತ টে ও ঐতথ

ಶಿಳಾನಾಧಿಸಿ ಪರ್ ಎಪ್. ಸನಂಡ ತೆಸಿಕಿ ರಿಸ್ಟ್ ಮಾಟ್ಲಾಹುಲ್ ಅನು ವಿಭಾಗುವ ವಿಸ್ತಾರ್ಥ एस किस्टिश्र हे हिलार्ट भी के ला हिल्ली एक १० के लिय है है जा का का หมก เคือธริ ฮิเซิล की रही ने के किया किया किया किया है कि कि के किया है कि कि किया है कि कि किया है किया

కుంపుంక రెక్ట్ ఏవన్నయ కర్తలు నారి వ్యవహా 80 బాంరు.

30 9 2 PRINCIPAL S. COLLEGE OF ENGINEERIN TIRUPATI- 517 507, A.P



SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.
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ATTENDANCE AND OVERALL FEED BECK ANALYSIS ON "Workshop on CATIA V5 (25.09.2023 - 30.09.2023)

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INSTITUTION'S INNOVATION COUNCIL

Program or Activity Name	A Two-Day wo	rkshop on "2D Drafting o SketchUp	& 3D Modeling using AutoCAD,
Social Media Links (Instagram, facebook, Linked in)			y1K9ylQA/?igsh=bDhtbDU2ZXk4N2Jm VCSXyDewV7jX59/?mibextid=WC7FNe
Academic Year	AY 2023-24	Type of Activity	IIC Driven
Quarter	1	Program Type	Workshop
Duration of Activity (in Hrs)	12 hours	Program Theme	Entrepreneurship/IPR/Innovation/Incub ation/Startup
Start Date	19-02-2024	No of Student Attended	49
End date	20-02-2024	No of faculty Attended	02
Expenditure Amount	Rs.17,390	No of External Participants	0
Mode of Session	Offline	Google Meet Link	
Resource Person Name-1	Sri. Sivaram A.V.S	Designation-1	Centre Manager
Resource Person Name-2		Designation-2	
Coordinator	G.Anusha, T.Sravani	Designation	Assistant Professor
Program Video Link (minimum 2min)	YouTube:- https://youtu.be/zKQe-	YJ16GE?si=b6seMMJFLzl	PJGtLq

IIC-SVCE in association with Department of Civil Engineering had conducted A Two-Day workshop on "2D Drafting & 3D Modeling using AutoCAD, SketchUp", under the guidance of Sri. Sivaram A.V.S, Centre Manager, Assistive CADD, Tirupati.

Objective:

The main objective of this workshop was:

- Introduce participants to the fundamentals of AutoCAD and SketchUp software.
- Teach participants how to create 2D and 3D drawings using AutoCAD & SketchUp.
- Familiarize participants with essential tools and commands in AutoCAD & SketchUp.
- Provide hands-on practice sessions to enhance participants' skills in drafting, designing, and modeling.
- Explore advanced features and techniques in AutoCAD and SketchUpfor more efficient and accurate drafting.

IIC-SVCE Dept. of CE Page 1







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Session Details:

SRI VENKATESV

Day-1

The workshop commenced with Dr.M.Chittaranjan, Professor and HOD of Civil Engineering setting the objectives for the session. He expressed his gratitude to the management and Principal forgiving permission and financial support to organize the symposium. Dr.M.Chittaranjan, Professor and Head of Civil Engineering Department, advised all the participants to utilize the opportunity to enhance their skills.

Later Ms. A.Mounika, a third-year student, extended a warm welcome to the resource person, presenting them with a bouquet of flowers. Ms.K.Navya Sree, third year student welcomed the resource person by introducing his profile. Thereafter, the session was handed over to Mr. Sivaram.A.V.S, the resource person. Mr. Sivaram.A.V.S began by introducing the fundamentals of AutoCAD, elucidating how to create plans, sections, and elevations using a single bedroom plan as an example. Later he explained few fundamentals in SketchUp. The workshop proceeded until 4:00 p.m., with breaks provided for snacks and lunch. It was an engaging and informative session for all participants.

Day-2

On the second day of the workshop, Mr. Sivaram.A.V.S, the resource person, commenced the session by continuing with few more fundamental concepts in SketchUp and trained how to create a complete 3D building using same single bedroom plan developed in AutoCAD as a practical example.

The workshop continued until 3:00 p.m., with breaks provided for snacks and lunch, ensuring participants remained energized and engaged throughout the day.

At the conclusion of the session, Dr. M. Chittaranjan, Professor and HOD of Civil Engineering, sought feedback from both students and faculty members regarding the workshop. It was heartening to note that all participants provided very good feedback, expressing their appreciation for the valuable insights gained during the workshop. Many participants expressed a desire for similar workshops to be organized in the future. Dr.M.Chittaranjan, Professor and HOD of Civil Engineering appreciated faculty coordinators and student coordinators for organizing the event successfully.

Ms M.Venkata Devi Prasanna, third year student and Mrs, G.Anusha Assistant Professor had concluded with a vote of thanks, marking the end of a successful and enriching session. Finally the session is ended by distributing certificates to the participants, honoring the Resource Person with Souvenir and capturing group photos.

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We are greatly indebted to the Principal, the Management, and the Head of the Civil Engineering Department & Student Coordinators for providing us this opportunity to organize the Two-Day workshop successfully.

Outcome of the Event:

- Students had developed proficiency in using AutoCAD and SketchUp, learning how to create detailed drawings, 3D models, and architectural designs.
- Through hands-on exercises and projects, students applied theoretical knowledge to real-world scenarios, gaining practical experience in using these software tools.
- By working through challenges and troubleshooting errors encountered during the workshop, students had developed problem-solving skills specific to CAD and 3D modeling.
- Collaborative exercises within the workshop environment had foster teamwork and communication skills, as students learn to work together on design projects and share ideas.
- The skills acquired in the workshop had improved students for their careers in architecture, engineering, interior design, and related fields, providing them with a competitive advantage in the job market.
- The workshop had served as a foundation for ongoing learning and exploration of CAD and 3D modeling software, inspiring students to further develop their skills and knowledge in these areas.
- Overall, participating in an AutoCAD and SketchUp workshop equipped students with valuable technical, creative, and professional skills essential for success in their academic and future careers.

Glimpses of the Event:





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IIC-SVCE Dept. of CE Page 4

Sri Venkateswara College of Engineering , Tirupati

Scheme: PMKVY 4.0-C8CM877

Job Role: Additive Manufacturing (3D Printing) V-3/IA8/Q5602/4

Batch ID 2357308

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IMPACT OF MoU with SRI VIGNAN TECHNOLOGIES 3D PRINTING



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Karakambadi Road, Tirupati - 517 507.

Department of Mechanical Engineering

3D-PRINTING

3D Printer Specifications (FDM) Build Volume (X, Y, Z):

- Consider the maximum dimensions (in millimeters) of the parts you typically need to print.
- Industrial printers generally offer larger build volumes compared to home printers. The text mentions models with build volumes of 250x250x175 mm and 420x420x420 mm.

Resolution (Minimum Layer Thickness):

- This determines the level of detail your printed parts can have. Lower layer thickness translates to finer details but may also increase printing time.
 Materials:
- Identify the specific filaments you require for your projects. Industrial
 printers often handle a wider range of materials, including hightemperature filaments like PEEK, which are not suitable for most home
 printers.

Printing Features:

- Auto-Leveling Table: This feature ensures consistent print placement and reduces print failures. Most industrial printers have this, while it's less common in home printers.
- Heated Chamber: This stabilizes printing conditions and allows for using materials prone to shrinkage (like ABS) without warping issues. Open-air chambers in home printers limit material options.
- **Direct Material Feed System:** This offers more precise material control and enables using flexible filaments like TPU.

Additional Considerations:

- Budget: Industrial printers are significantly more expensive than home printers.
- Print Speed: While printing speeds might be similar between industrial and home printers, industrial machines can save time by eliminating manual table leveling before each print.
- **Lifespan:** Industrial printers are typically built with higher quality components for extended use. Proper care and maintenance further extend lifespan.
 - **Implementation and Service:** Industrial printers often come with training and technical support, unlike home printers that rely on online resourceS







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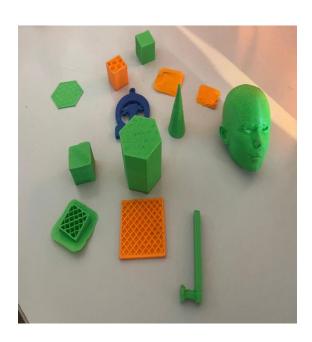
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OUTCOMES:

1.WORKSHOPS/HANDS ON TRAINING

Mechanical Department organized and successfully completed the skill oriented training with job role of Additive Manufacturing (3D Printing) course including OJT (On Job Training) under PMKVY4.0 program, the assessment of this course was completed on 29-02-2024. The students explored the 3D modelling, slicing, installer setup, actual printing process etc. along with the advancements in this field.

2.UNDER GRADUATE STUDENT PROJECTS ARE DONE BY USING 3D PRINTING

- 1. Fabrication Of Desktop 3d Printer With Scanner
- 2. Design And Printing Of Robotic Arm Using 3d Printer
- 3. Fabrication of Composite Overwrapped Pressure Vessel

Coordinator HOD-ME