



# Vidyavardhini's College of Engineering & Technology

Founder President Late Padmashri H. G. Vartak

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**Criteria Number: 3**  
**Sub criteria Number: 3.3.2**

**Criteria Name: Research and Innovation**  
**Sub-criteria Name: Research Publication and Awards**

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

**This document contains copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters. The documentary evidence can be accessed by clicking on the link given.**

## Summary

Year	2022-23	2021-22	2020-21	2019-20	2018-19	Total
Number	81	34	19	121	12	267

## Supporting Document

Sr. No.	Name of the teacher	Title of the book/chapters/paper published	Link
1	Dr. Ashish Chaudhari and Mr. Vinay D.Patel	Performance Study of Titanium di-oxide Nanomaterial based Perovskite Solar Cell and comparison with organic Die Sensitized Solar cell	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_1.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_1.pdf</a>
2	Dr. Uday Aswalekar, Mr. Ganesh Wahile	Design and Development of Robotics Arm	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_2.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_2.pdf</a>
3	Mr. Dipak Chaudhari	Performance, Combustion and Emission Analysis of Rubber Seed Extract and Palm oil as biodiesel	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_3.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_3.pdf</a>
4	Mr. Raahul Krishna	Design and Analysis of Subsonic Wind Tunnel	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_4.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_4.pdf</a>
5	Mr. Sanjay Lohar	An Enhancement of Machine Maintenance Strategy through IoT to improve Productivity for Indian SMEs	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_5.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_5.pdf</a>
6	Dr.Ashish Chaudhari	Design and Development of a system for enhancing the life of the WEDM Filter	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_6.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_6.pdf</a>



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7	Mr. Kamlesh Bachkar	Performance Analysis of Air conditioning System Utilizing Condensate	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_7.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_7.pdf</a>
8	Mr. Kamlesh Bachkar	Real Time monitoring & Prescriptive maintenance of Regeneration System using Machine Learning	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_8.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_8.pdf</a>
9	Mr. Mukund Kavekar	Design and development of wheelchair for paraplegic and Quadriplegic Patients	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_9.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_9.pdf</a>
10	Mrs. Priti Vairagi	Automatic Sorting And Packaging Of Moulded Parts	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_10.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_10.pdf</a>
11	Mrs. Priti Vairagi	Segregation of plastic bottle using artificial Intelligence	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_11.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_11.pdf</a>
12	Dr. Vikas Gupta	Smart Vehicle Security Black Box	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_12.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_12.pdf</a>
13	Dr. Sunayana Jadhav	BMS for Electric Vehicle	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_13.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_13.pdf</a>
14	Ms. Ashwini Katkar	Investigating the Impact of Distance on the Reception in Molecular Communication	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_14.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_14.pdf</a>
15	Dr. Amrita Ruperee	Automated Waste Segregation System	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_15.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_15.pdf</a>
16	Ms. Neha N. Gharat	Hybrid Lightweight Cryptography using AES and ECC for IoT Security	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_16.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_16.pdf</a>
17	Ms. Neha N. Gharat	Source Location Privacy Protection Algorithms in IoT Networks: A Survey	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_17.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_17.pdf</a>
18	Ms. Ashwini Katkar	The Influence of Distance on Reception in Molecular Communication	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_18.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_18.pdf</a>
19	Ms. Ashwini Katkar	Semiintegrated Solar LED Street Light	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_19.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_19.pdf</a>



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20	Ms. Shaista Khanam	Enhanced Zero shot learning using Deep neural network ResNet 50	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_20.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_20.pdf</a>
21	Ms. Shaista Khanam	Image Classification using visual semantic embedding	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_21.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_21.pdf</a>
22	Mr. Vishal Pande, Dr. Tatwadarshi P. Nagarhalli, Mrs. Sneha Mhatre,	Optimal PID Control of a Buck Converter using MOBA and IMOBA	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_22.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_22.pdf</a>
23	Dr. Tatwadarshi P. Nagarhalli	Evaluation of Learning Techniques for Intrusion Detection System	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_23.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_23.pdf</a>
24	Dr. Tatwadarshi P. Nagarhalli	Cyber Security Threats and Challenges Facing Human Life	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_24.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_24.pdf</a>
25	Dr. Tatwadarshi P. Nagarhalli	Natural Language Processing (Sem VIII/ Computer Engineering/SPPU)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_25.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_25.pdf</a>
26	Dr. Tatwadarshi P. Nagarhalli	Natural Language Processing (Sem VIII/ Electronics and Telecommunication Engineering)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_26.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_26.pdf</a>
27	Ms. Smita Jawale, Mr. Yogesh Pingle	Internet Programming (Revised Third Edition-Computer)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_27.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_27.pdf</a>
28	Dr. Tatwadarshi P. Nagarhalli	Cyber Security	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_28.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_28.pdf</a>
29	Ms. Smita Jawale, Dr. Madhavi Waghmare, Ms. Vaishali Shirsath	Advance Database Management System	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_29.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_29.pdf</a>
30	Ms. Smita Jawale, Ms. Vaishali Shirsath	Advanced Data Management Technologies	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_30.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_30.pdf</a>
31	Ms. Smita Jawale	Automatic Question Answer Generation using T5 and NLP	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_31.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_31.pdf</a>
32	Ms. Swati Varma	E-commerce using Geo-Navigation	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_32.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_32.pdf</a>



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33	Mr. Sunil Katkar	Bike Skid Detection and Smart Alert System with Route Condition Assistance	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_33.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_33.pdf</a>
34	Dr. Tatwadarshi P. Nagarhalli	Hate Speech Detection using Deep Learning and Text Analysis	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_34.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_34.pdf</a>
35	Dr. Tatwadarshi P. Nagarhalli	TraceX: a tax tracking application	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_35.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_35.pdf</a>
36	Dr. Swapna Borde	Object Recognition based on Deep Learning Algorithms using Embedded IoT with Interactive Interface	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_36.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_36.pdf</a>
37	Mr. Anil Hingmire	Comparing Effectiveness of GAN and CLAHE for Enhancing Underwater Images	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_37.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_37.pdf</a>
38	Mrs.Sneha Mhatre	Deep Learning (Computer Engineering)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_38.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_38.pdf</a>
39	Mr. Sainath Patil, Dr. Ashish Vanmali	“Cyber Security Concerns for IoB,” In R. Dhaya, R. Kanthavel (Eds.), Internet of Behaviors (IoB)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_39.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_39.pdf</a>
40	Mr. Anil Hingmire	A Novel Approach to Audio Steganography on Audio Input for Secure Communication	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_40.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_40.pdf</a>
41	Mr. Anil Hingmire	Fake Product Restriction Using BlockChain	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_41.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_41.pdf</a>
42	Mrs. Vaishali Shirsath	“An Assessment on Game-Based Cyber Defense Strategy for SDN” In N. Shekhar et al. (Eds.) , Cyber Security Threats & Challenges Facing Human Life: A Comprehensive Study	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_42.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_42.pdf</a>
43	Dr. Madhavi Waghmare, Mrs. Vaishali Shirsath	Automata Theory	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_43.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_43.pdf</a>
44	Dr. Madhavi Waghmare, Mrs. Vaishali Shirsath	Theoretical Computer Science	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_44.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_44.pdf</a>



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45	Mr. Yogesh Pingle, Dr. Madhavi Waghmare, Mrs. Vaishali Shirsath	Computer Network	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_45.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_45.pdf</a>
46	Dr. Madhavi Waghmare, Mrs. Vaishali Shirsath, Mrs. Smita Jawale	Software Engineering	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_46.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_46.pdf</a>
47	Mr. Yogesh Pingle, Mrs. Vaishali Shirsath, Mrs. Smita Jawale	Data Warehousing & Mining	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_47.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_47.pdf</a>
48	Mrs. Anagha Patil	Cryptography and System Security	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_48.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_48.pdf</a>
49	Mrs. Anagha Patil	Data Warehousing and Mining	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_49.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_49.pdf</a>
50	Dr. Ajay Radke	A Review of Affordable Mass Housing of G+3 Building Using Sustainability Approach	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_50.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_50.pdf</a>
51	Dr. Ajay Radke	Study of Confined and Unconfined Structural Member as a Column	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_51.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_51.pdf</a>
52	Mr. Viren Chandanshive	Planning and Development of waterway transportation along coastal cities-A Review	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_52.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_52.pdf</a>
53	Mr. Viren Chandanshive	Planning, Scheduling and resource allocation of G+14 Residential building using Microsoft Project	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_53.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_53.pdf</a>
54	Mr. Viren Chandanshive	Selection of Construction Equipment using Analytical Hierarchy Process (AHP) & Analytical Network Process (ANP)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_54.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_54.pdf</a>
55	Mr. Jaydeep Chougale	Study of Planning & Design of a Commercial Structure	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_55.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_55.pdf</a>
56	Mr. Jaydeep Chougale	Alignment and Design of Elevated Railway Track at Dahisar-A Review	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_56.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_56.pdf</a>
57	Mr. Jaydeep Chougale	Effect of GGBS on Durability Properties of Concrete	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_57.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_57.pdf</a>



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58	Mr. Vikrant Kothari	A Review on Sustainable Planning and Design of Kelthan Village	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_58.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_58.pdf</a>
59	Mr. Vikrant Kothari	Review of Existing Pothole Repair System for Flexible Pavement	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_59.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_59.pdf</a>
60	Ms. Puja Kadam	Rain Water Harvesting and Waste Management for a Community Building-A Review	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_60.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_60.pdf</a>
61	Ms. Puja Kadam	Redesigning of Water Distribution Network of Region of Virar using WaterGems Software	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_61.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_61.pdf</a>
62	Mr.Arbaaz Kazi	Suitability Study of Foundations for On-shore and Off-Shore Wind Turbine-A State of the Art	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_62.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_62.pdf</a>
63	Mr.Arbaaz Kazi	Development of MS EXCEL Software for Civil Engineering Problems	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_63.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_63.pdf</a>
64	Mr. Prakash Panda	Prefabricated Wall panels using Red Soil for Low Cost Housing-A Review	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_64.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_64.pdf</a>
65	Mr. Prakash Panda	Comparision of Pavement Analysis Software for Indian Scanerio	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_65.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_65.pdf</a>
66	Mr. Vikrant Kothari, Mr. Arbaz Kazi	Appraisal and Implementation of Infrastructure Projects	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_66.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_66.pdf</a>
67	Mr.Yogesh Pingle	A Review on the use of Machine Learning Techniques in Music Recommendation System for Healthcare Management	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_67.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_67.pdf</a>
68	Ms.Sejal D'Mello	Navigation Assistance for the Visually Impaired: An Image Segmentation-based Web Application	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_68.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_68.pdf</a>
69	Mr. Rishabh Melwanki	CFD analysis of Cactus and Inverted Trapezoidal shape fin profile for four stroke IC engine	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_69.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_69.pdf</a>



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71	Dr. Sunayana Jadhav	Cluster VSCH Routing Algorithm for Enhanced Network Lifetime in WSNs	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_71.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_71.pdf</a>
72	Ms. Shaista Khanam, Ms. Trupti Shah	Smart Solar tracker with energy monitoring	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_72.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_72.pdf</a>
73	Ms. Sandhya Supalkar	Design 8 bit hybrid carry save adder	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_73.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_73.pdf</a>
74	Ms. Smita Jawale, Mr. Yogesh Pingle	Internet Programming (Revised Second Edition-Computer) SEM V	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_74.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_74.pdf</a>
75	Dr. Tatwadarshi P. Nagarhalli, Mrs. Sneha Mhatre, Mr. Sanket Patil	Evaluating the effectiveness of the Convolution Neural Network in Detecting Brain Tumors	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_75.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_75.pdf</a>
76	Dr. Tatwadarshi P. Nagarhalli	Analysis of Recurrent Neural Network and Convolution Neural Network Techniques in Blood Cell Classification	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_76.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_76.pdf</a>
77	Dr. Tatwadarshi P. Nagarhalli	Natural Language Processing (Sem VII/ Computer Engineering)	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_77.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_77.pdf</a>
78	Ms. Swati Varma	Predicting chronic diseases using clinical notes and fine-tuned transformers	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_78.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_78.pdf</a>
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161	Mr. Tusharkumar Raut	Design development and fabrication of preheating chamber for upset forging	<a href="https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_161.pdf">https://vcet.edu.in/NAAC/3/3.3.2/3.3.2_161.pdf</a>
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