



LTJSS
PRIYADARSHIN COLLEGE OF ENGINEERING, NAGPUR
(An Autonomous Institution Affiliated to RTM Nagpur University)
Research & Development Cell



BOOK CHAPTERS PUBLISHED DURING THE LAST THREE YEARS

Table-A: Number of Book Chapters Last Three Years

	Number of Book Chapter Published		
Year	Total	International	National
2024-2025	15	09	06
2023-2024	07	06	01
2022-2023	04	03	01
Total	26	18	08

Table-B: Number of Book Chapters Published in Academic Year 2024-25

Sr. No.	Name of Department	Number of Book Chapter Published						
		Total	International	National	Indexing			Other
					SCI	SCOPUS	WoS	Other
1	Mechanical Engineering	03	03	-	-	03	-	-
2	Electronics & Telecommunication Engg.	01	01	-	-	01	-	-
3	Information Technology	-	-	-	-	-	-	-
4	Civil Engineering	-	-	-	-	-	-	-
5	Aeronautical Engineering	-	-	-	-	-	-	-
6	Artificial Intelligence and Data Science	03	03	-	-	03	-	-
7	Computer Science & Engineering	03	-	03	-	-	-	03
8	Computer Technology	01	-	01	-	-	-	01
9	Industrial IoT	-	-	-	-	-	-	-
10	Robotics and Artificial Intelligence	-	-	-	-	-	-	-
11	Electronics & Communication Engg.	-	-	-	-	-	-	-
12	Electrical Engineering	-	-	-	-	-	-	-
13	Electronics and Power Engineering	01	-	01	-	-	-	01
14	Biotechnology	-	-	-	-	-	-	-
15	Chemical Engineering	01	01	-	-	01	-	-
16	First year	02	01	01	01	-	-	01
Total		15	09	06	01	08	-	06

Table-C: Number of Book Chapters Published in Academic Year 2023-24

		Number Book Chapter Published						
Sr. No.	Name of Department	Total	International	National	Indexing			
					SCI	SCOPUS	WoS	Other
1	Civil Engineering	02	02	-	-	02	-	-
2	First year	05	04	01	-	04	-	01
Total		07	06	01	-	06	-	01

Table-D: Number of Book Chapters Published in Academic Year 2022-23

		Number Book Chapter Published						
Sr. No.	Name of Department	Total	International	National	Indexing			
					SCI	SCOPUS	WoS	Other
1	Civil Engineering	02	01	01	-	01	-	01
2	First year	02	02	-	02	-	-	-
Total		04	03	01	02	01	-	01

Table-E: Last Three Years Summary of Book Chapters Published (Department-wise)

Sr. No.	Name of Department	2024-25	2023-24	2022-23	Total (Last 3 Years)
1	Mechanical Engineering	03	-	-	03
2	Electronics & Telecommunication Engg.	01	-	-	01
3	Information Technology	-	-	-	-
4	Civil Engineering	-	02	02	04
5	Aeronautical Engineering	-	-	-	-
6	Artificial Intelligence and Data Science	03	-	-	03
7	Computer Science & Engineering	03	-	-	03
8	Computer Technology	01	-	-	01
9	Industrial IoT	-	-	-	01
10	Robotics and Artificial Intelligence	-	-	-	-
11	Electronics & Communication Engg.	-	-	-	-
12	Electrical Engineering	-	-	-	-
13	Electronics and Power Engineering	01	-	-	01
14	Biotechnology	-	-	-	-
15	Chemical Engineering	01	-	-	01
16	First year	02	05	02	09

Institute Total	15	07	04	26
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Table-F: Details of Book Chapters Published

Sr. No.	Dept.	2024-2025							
		Author	Title of Chapter	Name of Book	Month & Year	Page no.	ISBN	Scopus/SCI/WoS/UGC/Other	Publisher
1	ME	Dr. I. A. Khan	Design and Finite Element Method (FEM) analysis of electric two-wheeler alloy wheel	Recent Advances in Material, Manufacturing, and Machine Learning	Jun 2024	31-37	9781003450252	Scopus	CRC Press, Taylors & Francis
2	ME	Dr. G. D. Mehta, Dr. S. D. Shelare	Effect of vehicle vibrations on the human body	Recent Advances in Material, Manufacturing, and Machine Learning	Jun 2024	51-60	9781003450252	Scopus	CRC Press, Taylors & Francis
3	ME	Dr. S. D. Shelare	Critical review on weldability of 316 austenitic and 410 martensitic stainless steel	Recent Advances in Material, Manufacturing, and Machine Learning	Jun 2024	71-77	9781003450252	Scopus	CRC Press, Taylors & Francis
4	ETE	Ms.J.C.Kolte	Dual-Band Planar Antenna Design Using Characteristics Mode Analysis for 5G Sub-6 band and WLAN Application	Advances in Mechatronics Systems	Dec.2024		2731-4855	Scopus	Springer Nature
5	AI&DS	Ms.U.A. Gani	Role of Federated Learning in Enhancing security	Challenges and Solutions for Cybersecurity and Adversarial Machine Learning	June, 2025	28	9798337322001	Scopus	IGI Global Publisher Scientific Publishing
6	AI&DS	Ms.A.W. Bondade	Remote Monitoring and Wearable Technology	AI -Driven Personalized Healthcare Solution	Feb,2025	26	9798369378588	Scopus	IGI Global Publisher Scientific Publishing

7	AI&DS	Ms.A.W. Bondade	Intelligent Automation in Marketing	Hyper automation In Business and Society	July 2024	23	9198369333549	Scopus	IGI Global Publisher Scientific Pu.
8	CSE	Dr. V. Balpande	Introduction to High-Performance Computing Architectures	Introduction to High-Performance Computing Architectures	2025		9781003425458	Other	Auerbach Publications
9	CSE	Dr. V. Balpande	High Performance computing	High Performance computing	2025		9781003425458	Other	Auerbach Publications
10	CSE	Dr. V. Balpande	Parallelization Techniques	Parallelization Techniques	2025	19	9781003425458	Other	Auerbach Publications
11	CT	Dr. N. A. Ghodichor	Remote Monitoring and Wearable Technology	AI-Driven Personalized Healthcare Solution	2025	DOI:10.4018/979-8-3693-7858-8.ch005	979-8-3693-7858-8	Other	IGI Global Scientific Publishing
12	E&P	Dr.Umesh E. Hiwase	Causes and Effect of Inverter Harmonics	Current Perspective to Physical Science Research	July 2024	70-89	978-81-969907-1-8	other	B P International
13	CHEM ENGG	Mrs. Snehal Deshmukh	Green Sythesis: Novel method for Synthesis of SiO2 Nanoparticles	Emerging Trends in Green Chemical Technologie: Navigating Challenges and Exploring Opportunities	15-05-2025	291	978-1-0364-4554-6	SCI	
14	FY-Hum	Dr. Dora Thompson	Reassessing the Role of E-Learning Tools in Language Acquisition : A critical Perspective	Modern Trends in English Language and Literature Training	05-04-2025	181	978-93-88130-84-4	Other	
15	FY-Phy.	Dr.M.D. Mehare	Spectroscopic Properties of Rare-earth Activatde Energy-Saving LED Phosphor	Emerging Energy Materials Applications and Challenges	13-03-2024	110-129	978-1-032-31209-5	SCOPUS	
		<p style="text-align: center;">2023-24</p>							
Sr.	Dept.	Author	Title of Chapter	Name of Book	Month &	Page no.	ISBN	Scopus/SCI/WoS	Publisher

No.					Year			/UGC/Other	
1	CIVIL	Mrs Pranita S Bhandari	Experimental study of copper slag as a natural and replacement	Recent Advances in Material, Manufacturing, and Machine Learning	2024	9	9781003450252	Scopus	CRC Press
2	CIVIL	Mrs Sarika Modak	Experimental investigation of bagasse Ash in Concrete material	Sustainable materials:The role of artificial intelligence and machine learning	2024	53	978-1040154267	Scopus	CRC Press
3	FY-Chem	Dr. Deepali Marghade	Integrated Production Processes Future Perspectives & Technology Feasibility	Gasoline. A Green Spark	Oct 2023	145	978-1-83916-788-1	Scopus	Royal Society of Chemistry
4	FY-Chem	Dr. Deepali Marghade	Properties and adsorption mechanism of biological contaminants by carbon nanotubes	Water Treatment using Engineering carbon nanotube	Oct 2023	271	97804431843	SCI	Elsevier
5	FY-Chem	Dr. Deepali Marghade	Current Lignocellulosic Biomass Logistics and Challenges	Gasoline. A Green Spark	Oct 2023	39	978-1-83916-788-1	Scopus	Royal Society of Chemistry
6	FY-Chem	M Shahbaz Khan	Sludge as a Sustainable Bioresource in Developed Countries	Treatment and Management of Sewage Sludge Futuristic	2023		9781003354765	Scopus	CRC Press, Taylor & Francis Group.
7	FY-Chem	Dr Seema Shrivastava & Dr. S. Rao	Fenton Oxidation Process for treatment of wastewater containing Dyes	Futuristic trends in chemical material sciences	2023	1450	978-93-5747-640-9	Other	IIP
2022-23									
Sr.	Dept.	Author	Title of Chapter	Name of Book	Month &	Page no.	ISBN	Scopus/SCI/WoS/U	Publisher

No.					Year			GC/Other	
1	CIVIL	Dr. Prashant Dhorabe, Mr Vikrant Vairagade	Effective Utilization of Industry Solid waste into the concrete and its management	Circular Economy in the Construction Industry	2022	77		Scopus	CRC Press
2	CIVIL	Mr Vikrant Vairagade, Dr. Prashant Dhorabe	A Comparative Analysis on Performance Characteristic of Compression ignition Engine Fuelled with Ethanol Diesel Blend	Innovative Scientific	2022			Other	ISP
3	FY-Chem	Dr. Manisha Joshi	Experimental Data Based Model of Fracture of Adhesive Joint for a Link of Mechanism Made from Bamboo	Recent Advances in Machines and Mechanisms	Oct. 2022		978-981-11=9-3716-3	SCI	Springer
4	FY-Chem	Dr. Deepali Marghade	Aquatic Weeds as Bioenergy Feedstock	Novel Feedstocks for Biofuels Production. Clean Energy Production Technologies	Oct. 2022		978-981-19 3581-7	SCI	Springer

Date: 18/12/2025