



List of Programme(s)

Department: Industrial and Production Engineering

List of Programmes having Components

Sr. No.	Programme Code	Programme Name	Academic Year
01.	IP07PSC02	Seminar on Summer Training	2021-22
02.	IP07PPR01	Minor Project	2021-22
03.	IP08PPR02	Major Project	2021-22
04.	IPPBPT1	Mini Project/Seminar	2021-22
05.	IPPCPT1	Dissertation Stage-I	2021-22
06.	IPPDPT1	Dissertation Stage-II	2021-22



Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year : 2021-22

School : School of Studies of Engineering and Technology

Department : Industrial and Production Engineering

Date and Time : July 23, 2021 - 11:00 AM

Venue : Online

The scheduled meeting of member of Board of Studies (BoS) of Department of Industrial and Production Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur was held to design and discuss the B. Tech. Fourth year (VII and VIII semesters) scheme and syllabi.

The following members were present in the meeting:

1. Prof. G.K. Agrawal (External Expert Member BoS, Professor, GEC Bilaspur)
2. Mr. Dalbir Singh Rekhi (Member BoS Industry Expert, J.S.P.L. Raigarh CG.)
3. Prof. Mukesh Kumar Singh (Member BoS, Professor, Dept. of Industrial and Production Engineering)
4. Prof. S.C. Srivastava (HOD, Prof., Dept. of Industrial and Production Engineering-cum Chairman, BOS)
5. Mr. C.P. Dewangan (Member BoS, Associate Professor, Dept. of Industrial and Production Engineering)
6. Mrs. Disha Dewangan (Member BoS, Assistant Professor, Dept. of Industrial and Production Engineering)
7. Mrs. Arpita Roy Choudhary (Invited Member, Professor, Dept. of Industrial and Production Engineering)
8. Dr. Atul Kumar Sahu (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
9. Mr. Ganesh Prasad Shukla (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
10. Mr. Nitin Kumar Sahu (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
11. Mr. Kailash Kumar Borkar (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
12. Mr. Leeladhar Rajput (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
13. Mr. Anurag Singh (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
14. Mr. Kawal Lal Kurrey (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).

Following points were discussed during the meeting

1. In the meeting, New Choice Based Credit System(CBCS) scheme and syllabus of B.Tech VII and VIII semester (Industrial and Production Engineering) were discussed in details.



All suggestion of the members are incorporated and modified and then recommended for approval.

2. The New CBCS scheme and syllabus of B.Tech (Industrial and Production Engineering) VII and VIII semester have been accepted by the BOS (I.P.E.)

विभागाध्यक्ष / Head
औद्योगिक एवं उत्पादन अभियांत्रिकी
Industrial & Production Engineering
सौद्योगिकी संस्थान / Engineering & Technology
गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Signature & Seal of HoD



Scheme

DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING, GGVV, BILASPUR CG

**GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY), BILASPUR, CG
SCHOOL OF STUDIES IN ENGINEERING AND TECHNOLOGY**

Department of Industrial & Production Engineering

CBCS-New, Study & Evaluation Scheme W.E.F. Session: 2021-22

B. TECH FOURTH YEAR, VII SEMESTER

S. No	Course No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	INTERNAL ASSESSMENT	ESE	SUB-TOTAL	
1.	IP07TPC14	Computer Aided Design & Manufacturing	3	1	-	30	70	100	4
2.	IP07TPC15	Production Planning and Control	3	-	-	30	70	100	3
3.	IP07TPE05	Professional Elective-05	3	-	-	30	70	100	3
4.	IP07TOE02	Open Elective-02	3	-	-	30	70	100	3
5.	IP07TMC02	Indian Constitution	3	-	-	-	-	-	-
Total			15	1	-	120	280	400	13
PRACTICALS									
1.	IP07PPC08	CAD/CAM Lab	-	-	2	30	20	50	1
2.	IP07PSC02	Seminar on Summer Training	-	-	4	50	-	50	2
3.	IP07PPR01	Minor Project	-	-	8	100	-	100	4
Total			-	-	14	180	20	200	7

Total Credits: **20**

Total Contact Hour: **30**

Total Marks: **600**

INTERNAL ASSESSMENT: two class tests of 15 marks each will be conducted.

L-LECTURE, T-TUTORIAL, P-PRACTICAL, ESE –END SEMESTER EXAMINATION

IP07TPE05 Professional Electives-05
IP07TPE51 Fundamentals of Green Manufacturing
IP07TPE52 Product Design & Development
IP07TPE53 Engineering Economics
IP07TOE02 Open Elective-02
IP07TOE21 Advanced Manufacturing Processes
IP07TOE22 Principles of Management
IP07TOE23 Maintenance Management



DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING, GGVV, BILASPUR CG

GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY), BILASPUR, CG
SCHOOL OF STUDIES IN ENGINEERING AND TECHNOLOGY

Department of Industrial & Production Engineering

CBCS-New, Study & Evaluation Scheme W.E.F. Session: 2021-22

B. TECH FOURTH YEAR, VIII SEMESTER

SN	Course No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	INTERNAL ASSESSMENT	ESE	SUB-TOTAL	
1.	IP08TPC16	Robotics and Robot Applications	3	1	-	30	70	100	4
2.	IP08THS04	Electives from Humanity Science-04	3	-	-	30	70	100	3
3.	IP08TOE03	Open Elective-03	3	-	-	30	70	100	3
4.	IP08TOE04	Open Elective-04	3	-	-	30	70	100	3
5.	IP08TMC03	Essence of Indian Traditional Knowledge	3	-	-	-	-	-	-
Total			15	1	-	120	280	400	13
PRACTICALS									
1.	IP08PPR02	Major Project	-	-	12	120	80	200	6
2.	IP08PPC01	Comprehensive Viva	-	-	-	-	50	50	2
Total			-	-	12	120	130	250	8

Total Credits: **21**

Total Contact Hour: **28**

Total Marks: **650**

INTERNAL ASSESSMENT: -two class tests of 15 marks each will be conducted.

L-LECTURE, T-TUTORIAL, P-PRACTICAL, ESE –END SEMESTER EXAMINATION

IP08THS04 Electives from Humanity Science-04
IP08THS41 Intellectual Property Rights
IP08THS42 Safety Management and Labour Law
IP08TOE03 Open Elective-03
IP08TOE31 Computer Aided Process Planning
IP08TOE32 Microprocessors in Automation
IP08TOE04 Open Elective-04
IP08TOE41 Supply Chain Management
IP08TOE42 Composite Materials Technology

Note: Highlight the Courses having field projects / research projects / internships.



Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year : 2021-22

School : School of Studies of Engineering and Technology

Department : Industrial and Production Engineering

Date and Time : October 29, 2021 - 03:00 PM

Venue : Online

The scheduled meeting of member of Board of Studies (BoS) of Department of Industrial and Production Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur was held to design and discuss the B. Tech. Fourth year (VII and VIII semesters) scheme and syllabi.

The following members were present in the meeting:

1. Prof. G.K. Agrawal (External Expert Member BoS, Professor, GEC Bilaspur)
2. Mr. Dalbir Singh Rekhi (Member BoS Industry Expert, J.S.P.L. Raigarh CG.)
3. Prof. Mukesh Kumar Singh (Member BoS, Professor, Dept. of Industrial and Production Engineering)
4. Prof. S.C. Srivastava (HOD, Prof., Dept. of Industrial and Production Engineering-cum Chairman, BOS)
5. Mr. C.P. Dewangan (Member BoS, Associate Professor, Dept. of Industrial and Production Engineering)
6. Mrs. Disha Dewangan (Member BoS, Assistant Professor, Dept. of Industrial and Production Engineering)
7. Mrs. Arpita Roy Choudhary (Invited Member, Professor, Dept. of Industrial and Production Engineering)
8. Dr. Atul Kumar Sahu (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
9. Mr. Ganesh Prasad Shukla (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
10. Mr. Nitin Kumar Sahu (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering)
11. Mr. Leeladhar Rajput (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
12. Mr. Kawal Lal Kurrey (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
13. Mr. Anurag Singh (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).
14. Mr. Somnath Singroul (Invited Member, Assistant Professor, Dept. of Industrial and Production Engineering).

Following points were discussed during the meeting

1. In the meeting, Choice Based Credit System(CBCS) scheme and syllabus of M.Tech CAD-CAM and Robotics (Industrial and Production Engineering) were discussed in

Programs having field projects / research projects / internships

Criteria - I (1.3.3)



details. All suggestion of the members are incorporated and modified and then recommended for approval.

2. The CBCS scheme and syllabus of M.Tech CAD-CAM and Robotics (Industrial and Production Engineering) have been accepted by the BOS (I.P.E.).

A handwritten signature in black ink, appearing to be 'A. Kumar', is written over a faint circular stamp.

विभागाध्यक्ष/Head
औद्योगिक एवं उत्पादन अभियांत्रिकी
Industrial & Production Engineering
प्रौद्योगिकी संस्थान/Engineering & Technology
गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Signature & Seal of HoD

गुरु घासीदास विश्वविद्यालय
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)
Koni, Bilaspur - 495009 (C.G.)

Scheme

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)

(A Central University)
Koni, Bilaspur-495009, C.G (India)



**OUTCOME BASED EDUCATION
WITH
CHOICE BASED CREDIT SYSTEM (CBCS)**

**MASTER OF TECHNOLOGY
IN
CAD-CAM AND ROBOTICS**

COURSE STRUCTURE AND SYLLABI

**M.Tech. Regular Two Year Degree Program
(Effective from the academic year 2021-22)**

**DEPARTMENT OF INDUSTRIAL & PRODUCTION
ENGINEERING
SCHOOL OF ENGINEERING & TECHNOLOGY, GGV,
BILASPUR, C.G. (INDIA)**



With effect from Academic Year 2021-22

**DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING
SCHOOL OF ENGINEERING & TECHNOLOGY, GGV, BILASPUR, C.G. (INDIA)**

SCHEME OF EXAMINATION

M.TECH. CAD-CAM and ROBOTICS

M.Tech. I-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	IPPATT1	Computer Aided Design	3	0	0	40	60	100	3
2.	IPPATT2	Fundamentals of Robotics	3	0	0	40	60	100	3
3.	IPPATP1 IPPATP2 IPPATP3	Elective – I 1. Computer Integrated Manufacturing 2. Rapid Prototyping and Tooling 3. Supply chain management	3	0	0	40	60	100	3
4.	IPPATP4 IPPATP5 IPPATP6	Elective – II 1. Advanced Manufacturing Processes 2. Mechanics of Sheet Metal Forming 3. Micro-manufacturing	3	0	0	40	60	100	3
5.	IPPATP7 IPPATP8 IPPATP9	Elective – III 1. Modeling & Simulation 2. Theory of Vibration 3. Artificial Intelligence	3	0	0	40	60	100	3
6.	IPPATC1	Research Methodology& IPR	2	0	0	-	50	50	2
7.	IPPALT1	CAD-CAM lab	0	0	4	30	20	50	2
Total			17	0	4	230	370	600	19



With effect from Academic Year 2021-22

M.TECH. CAD-CAM and ROBOTICS

M.Tech. II-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	IPPBTT1	Finite Element Analysis	3	0	0	40	60	100	3
2.	IPPBTT2	Robotics and Control	3	0	0	40	60	100	3
3.		Elective – IV	3	0	0	40	60	100	3
	IPPBTP1 IPPBTP2 IPPBTP3	1. Green Manufacturing 2. Advance Operation Research 3. Total Quality Management							
4.		Elective – V	3	0	0	40	60	100	3
	IPPBTP4 IPPBTP5 IPPBTP6	1. Mechanics of Composite Material 2. Smart Materials and Applications 3. Mechatronics in Manufacturing Systems							
5.		Open Elective	3	0	0	40	60	100	3
	MSPBTO1 IPPBTO2 IPPBTO3 CEPBTO4 MEPBTO5 CHPBTO6 ECPBTO7 MCPBTO8	1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy 7. IoT 8. MOOCs							
6.		Audit Course/Value Added Course	2	0	0	0	0	0	0
	ELPBTX1 PEPBTX2 CEPBTX3 LAPBTX4	English for Research Paper Writing Stress Management by Yoga Disaster Management Constitution of India							
7.	IPPBPT1	Mini Project/Seminar	0	0	4	30	20	50	2
8.	IPPBLT1	Robotics lab	0	0	4	30	20	50	2
		Total	17	0	08	260	340	600	19

Note: Under MOOCs the students have to opt any subject other than Industrial & Production Engineering from NPTEL/UGC SWAYAM



With effect from Academic Year 2021-22

M.TECH. CAD-CAM and ROBOTICS

M.Tech. III-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	IPPCPT1	Dissertation Stage-I	0	0	28	100	100	200	14
Total			0	0	28	100	100	200	14

M.TECH. CAD-CAM and ROBOTICS

M.Tech. IV-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	IPPDPT1	Dissertation Stage-II	0	0	32	100	200	300	18
Total			0	0	32	100	200	300	18

Total Credits for the Program = 19 + 19 +14 +18 = 70

Course Code	Subjects	Periods/Week			Evaluation			Credits
		L	T	P	IA	ESE	Total	
IPPATT1	Computer Aided Design	3	0	0	40	60	100	3

IPPATT1- COMPUTER AIDED DESIGN

Course Objectives

The objective of this course is to;

1. Get idea of basic fundamentals of computer graphics used in CAD hardware and software and its communications.
2. Introduce various algorithms and mathematical expressions of curves, surface and solid CAD model.
3. Impart knowledge of new design concept and optimization technique to generate surface and solid in CAD.
4. Introduce basic fundamental of finite element method (FEM) for design optimization of mechanical element.

Course Outcomes

After successful completion of this course students are able to;

1. Generate and interpret engineering design of mechanical parts according to engineering design standards and its role in graphic communication process.
2. Impart knowledge of conceptual understanding of the principles of CAD systems, the



List of students undertaking Field Projects/Projects / Internships

Sr. No.	Programme Name	Name of the Student	Link of Certificate
01.	Rishikesh Kumar	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022122225_RISHI%20CINEMATOGRAPHY.pdf
02.	Badavath Srinivas Nayak	Vocational Training At NTPC-Sipat, Bilaspur	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022123230_SrinivasNayak%20Bdvth.pdf
03.	Harshit Mohite	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022123548_HARSHIT%20MOHITE.pdf
04.	Mohammad Manzar Hussain	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022123828_Manzar%20Hussain.pdf
05.	Prakash Singh Rajput	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022124103_PRAKASH%20SINGH%20RAJPUT.pdf
06.	Suryamani Dongre	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022124249_Suryamani%20Dongre.pdf
07.	Aabhas Bajpai	Vocational Training at NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022125054_Aabhas%20Bajpai.pdf



08.	Ankit Sisodiya	On Job Training On NEEM	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022124458_AnkitSisodiya.pdf
09.	Aryan Verma	Report on Automated Strapping Machine	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022125239_Aryan%20-%20Vaishali%20Verma.pdf
10.	Aviral Singh Thakur	Digital Shakha	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022125501_aviral%20singh%20thakur.pdf
11.	Beeravelly Gandhi	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022125703_Gandhi%20Beeravelli.pdf
12.	Dara Jaya Vardhan	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022125940_Jayavardhan%20Dara.pdf
13.	Dudekula Moulali	Vocational Training at NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022010128_DUDEKULA%20MOULALI.pdf
14.	Dugesh	Vocational Training at NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022010415_DUGESH%20SAHU.pdf
15.	Gaurav Rathore	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022010549_Gaurav%20Rathore.pdf
16.	Gaurav Yadav	Banaras Locomotive Works	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022011233_Gaurav%20Yadav.pdf
17.	Gontumukkala Venkata Naresh	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022011518_N



			aresh%20Venkat.pdf
18.	Gourav Bansal	SECR, Bilaspur	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022011637_Gourav%20Bansal.pdf
19.	Guntreddi Naimisha	Programming And Operating Of CNC Gas Cutting	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022011821_Guntreddi%20Naimisha.pdf
20.	Ishan Rajak	Vocational Training at NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022012054_Ishan%20Rajak.pdf
21.	Jeggili Vikas Kumar	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022012325_Vikas%20Kumar.pdf
22.	Karanam Devee Prasad	LIGHT & MEDIUM MERCHANT MILL (LMMM)	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022012517_Devee%20Prasad!.pdf
23.	Kaushal Prasad	Report on Automated Strapping Machine	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022012832_kaushal%20Prasad.pdf
24.	Kendruka Mohanchandu	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022013035_Mohan%20Chandu.pdf
25.	Khilendra Kumar Nirmalkar	Report on Automated Strapping Machine	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022013540_Khilendra%20Nirmal.pdf
26.	Kishan Kumar Nag	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022013725_Kishan_.pdf
27.	Komati	Vocational Training at NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022013910_anvesh%20komati.pdf



28.	Kotha Sandeep	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022014041_Kotha%20Sandeep.pdf
29.	Leena Raj	Mechanical Polymer Clinching Process	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022014209_Leena%20Raj.pdf
30.	Mamtaj Ratre	SECR, Bilaspur	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022014705_Mamtaj%20Ratre.pdf
31.	Maraka Praneeth Kumar Reddy	Training On AutoCAD	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022014847_Maraka%20Praneeth.pdf
32.	Mohd Asfaq	Rail Mill PPC And HR Department, JSPL	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022015016_Mohd%20Asfaq.pdf
33.	Perumalla Venkata Srinivas	ENGINEERING SHOPS & FOUNDRY (ES&F)	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022015247_srinivas%20perumalla.pdf
34.	Priya Dixit	Eastern Central Railway DDU	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022015538_Priya%20Dixit.pdf
35.	Rahul Pandey	Rail Mill PPC And HR Department, JSPL	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022015801_RAHUL%20PAND EY.pdf
36.	Rahul Singh	Consumer Research, Digital Marketing And Conversion Of Client (IACC)	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022015955_Rahul%20Singh.pdf
37.	Raushan Kumar Bhardwaj	On Job Training On NEEM	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022020332_Raushan%20Kumar.pdf
38.	Ravi Kant Upadhyay	Rail Mill PPC And HR Department, JSPL	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022020



			619_Ravi%20kant%20Upadhyay.pdf
39.	Shiv Om Singh	Vocational Training At NTPC-Sipat	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222020750_Shiv%20om%20Singh.pdf
40.	Subodh Kumar Mahto	Banaras Locomotive Works	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222021020_Subodh.pdf
41.	Subramaniam K	SECR, Bilaspur	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222021225_Mani%20Subramaniam.pdf
42.	Swapnil Dronkar	Industrial Training Report On Manufacturing Of TIP Trailer	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222021420_Swapnil%20Dronkar.pdf
43.	Vicky Thakur	Rail Mill PPC And HR Department, JSPL	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222021612_vicky%20thakur.pdf
44.	Abhijeet Katyayan	Analysis Of Barriers Implement Blockchain Manufacturing And Service Sector	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222024348_Abhijeet.pdf
45.	Akhilesh Tirkey	Obstacle Avoidance Of Wheeled Mobile Robot IN Cluttered Environment	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222024938_Akhilesh.pdf
46.	Anuj Ranjan Singh	Barriers in Implementing From Lean And Green To Sustainable Manufacturing In Indian Manufacturing Industry Using Weighted Product Model	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222025128_Anuj%20Ranjan.pdf
47.	Jonnakuti Sai Durga Rao	Coil Winding Machine	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222025417_J%20Sai%20Durga%20Project%20Certificate.pdf
48.	Lokesh Ijardar	One dimensional analysis of automotive radiator	https://ggu.ac.in/Admin/Files/DepartmentDocument/081720222025908_Lokesh.pdf
49.	Monika Sharma	Automatic UV-C Disinfection Robot	https://ggu.ac.in/Admin/Files/DepartmentDo



			cument/08172022030019_Monika.pdf
50.	Nikhil Diwan	Parametric Analysis of Expandable/Retractable Solar Panel	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022032850_Nikhil.pdf
51.	R. Shree Pragya	A Review on Hydrogen Economy and National Hydrogen Mission	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022033030_Sree%20Pragya.pdf
52.	Ritesh Gupta	Improvement in Yield of Carbonated Soft Drinks on Polyethylene Terephthalate (PET) and Returnable Glass Bottles (RGB) Line	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022033655_Ritesh.pdf
53.	Santwana Jahindra Singh	Assessment of Drivers and Barriers of Green Manufacturing Practices in Indian Industries	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022041405_Santwana%20Project%20certificate.pdf
54.	Shivam	Effect of machining characteristics on electrical discharge machine using different parameters	https://ggu.ac.in/Admin/Files/DepartmentDocument/08172022034340_Shivam.pdf