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Koni, Bilaspur - 495009 (C.G.)

List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department

: Industrial and Production Engineering

Programme Name : *B. Tech.*

Academic Year : 2021-22

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
01.	IP3TBS01	STATISTICAL METHODS
02.	IP3TES11	STRENGTH OF MATERIALS
03.	IP3TES12	MATERIAL SCIENCE AND METALLURGY
04.	IP3TPC11	THEORY OF MACHINE
05.	IP3TPC12	MANUFACTURING PROCESSES - I
06.	IP3LPC11	THEORY OF MACHINE LAB
07.	IP3LES12	STRENGTH OF MATERIALS LAB
08.	IP3THS11	ENGINEERING ECONOMICS
09.	IP3THS12	WORK STUDY AND ERGONOMICS
10.	IP4TBS02	NUMERICAL ANALYSIS AND COMPUTER PROGRAMMING
11.	IP4TPC21	MACHINE DRAWING
12.	IP4TPC22	INDUSTRIAL ENGINEERING
13.	IP4TPC23	MANUFACTURING PROCESSES-II
14.	IP4TPC24	FLUID MECHANICS
15.	IP4LPC21	NACP
16.	IP4LPC24	FLUID MECHANICS LAB
17.	IP4TPE11	BUSINESS COMMUNICATION AND PRESENTATION SKILL
18.	IP4TPE12	OCCUPATIONAL HELATH AND SAFETY

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19	IP4TPE13	BUSSINESS ETHICS AND CORPORATE GOVERNANCE
20	IP5TPC31	METAL CUTTING
21	IP5TPC32	FLUID MACHINERY
22	IP5TPC33	MACHINE DESIGN- I
23	IP5TPE21	TURBO MACHINES
24	IP5TPE22	INTERNAL COMBUSTION ENGINE
25	IP5TPE23	MEMS AND NANO TECHNOLOGY
26	IP5TPE31	TOTAL QUALITY MANAGEMENT
27	IP5TPE32	INDUSTRIAL AUTOMATION
28	IP5TPE33	MECHATRONICS
29	IP5TOE11	FINANCIAL MANAGMENT
30	IP5TOE12	MANAGERIAL ECONOMICS
31	IP5TOE13	FINANCIAL ACCOUNTING AND COSTING
32	IP5LPC31	METAL CUTTING LAB
33	IP5LPC32	FLUID MACHINERY LAB
34	IP5LPC33	SEMINAR
35	IP6TPC41	MACHINE DESIGN- II
36	IP6TPC42	MEASUREMENT, METROLOGY & CONTROL
37	IP6TPC43	WELDING ENGINEERING
38	IP6TPE41	MATERIAL MANAGEMENT
39	IP6TPE42	PLANT LAYOUT AND MATERIAL HANDLING
40	IP6TPE43	MAINTANCE AND RELIABILITY ENGINEERING
41	IP6TPE51	Automobile Engineering
42	IP6TPE52	POWER PLANT ENGINEERING
43	IP6TPE53	HEAT & MASS TRANSFER

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44	IP6T0E21	ENTERPRISE RESOURCE PLANNING
45	IP6TOE22	MANAGEMENT INFORMATION SYSTEM
46	IP6TOE23	SIX SIGMA AND DOE
47	IP6LPC42	MEASUREMENT AND METROLOGY LAB
48	IP6LPC43	WELDING ENGINEERING LAB
49	IP7TPC51	PRINCIPLES OF MANAGEMENT
50	IP7TPC52	PRODUCTION PLANNING AND CONTROL
51	IP7TPC53	CAD/CAM
52	IP7TOE31	PRODUCT DESIGN & DEVELOPMENT
53	IP7TOE32	ENTERPRENUERSHIP DEVELOPMENT
54	IP7TOE33	STRATEGIC MANAGEMENT
55	IP7TPE61	MACHINE TOOL DESIGN
56	IP7TPE62	REFRIGERATION AND AIR CONDITIONING
57	IP7TPE63	COMPOSITE MATERIALS AND TECHNOLOGY
58	IP7LPC53	CAD/CAM LAB
59	IP7LPC54	SEMINAR ON SUMMER TRAINING (ABOUT 30 DAYS)
60	IP7LPC55	MINOR PROJECT
61	IP8TPC61	OPERATION RESEARCH
62	IP8TPC62	MARKETING MANAGEMENT
63	IP8TOE41	SUPPLY CHAIN MANAGEMENT
64	IP8TOE42	SAFETY MANAGEMENT AND LABOUR LAW
65	IP8TOE43	FINITE ELEMENT METHOD
66	IP8TPE71	FLUID POWER AND CONTROL
67	IP8TPE72	ROBOTICS AND ROBOT APPLICATION
68	IP8TPE73	POWDER METALLURGY & CERAMICS

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69	IP8LPS02	MAJOR PROJECT
70	IP8LPC01	COMPREHENSIVE VIVA
71	IP01TBS01	MATHEMATICS-II
72	IP01TBS02	CHEMISTRY
73	IP01TES01	PROGRAMMING FOR PROBLEM SOLVING
74	IP01TES02	ENGINEERING MECHANICS
75	IP01PBS01	CHEMISTRY LAB
76	IP01PES01	PROGRAMMING FOR PROBLEM SOLVING LAB
77	IP01PES02	WORKSHOP AND MANUFACTURING PRACTICES
78	IP01PES03	ENGINEERING MECHANICS LAB
79	IP01PMC01	INDUCTION TRAINING PROGRAMME
80	IP02TBS03	PHYSICS
81	IP02TES03	BASIC ELECTRICAL ENGINEERING
82	IP02TBS04	MATHEMATICS-I
83	IP02THS01	ENGLISH
84	IP02THS02	ENVIRONMENTAL SCIENCES
85	IP02PBS02	PHYSICS LAB
86	IP02PES04	BASIC ELECTRICAL ENGINEERING LAB
87	IP02PES05	ENGINEERING GRAPHICS AND DESIGN
88	IP07TMC02	Indian Constitution
89	IP07TPE51	Fundamentals Of Green Manufacturing
90	IP07TOE21	Advanced Manufacturing Processes
91	IP07TOE23	Maintenance Management
92	IP08TMC03	Essence Of Indian Traditional Knowledge
93	IP08THS41	Intellectual Property Rights

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94	IP08TOE31	Computer Aided Process Planning
95	IP08TOE32	Microprocessors In Automation

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Scheme and Syllabus



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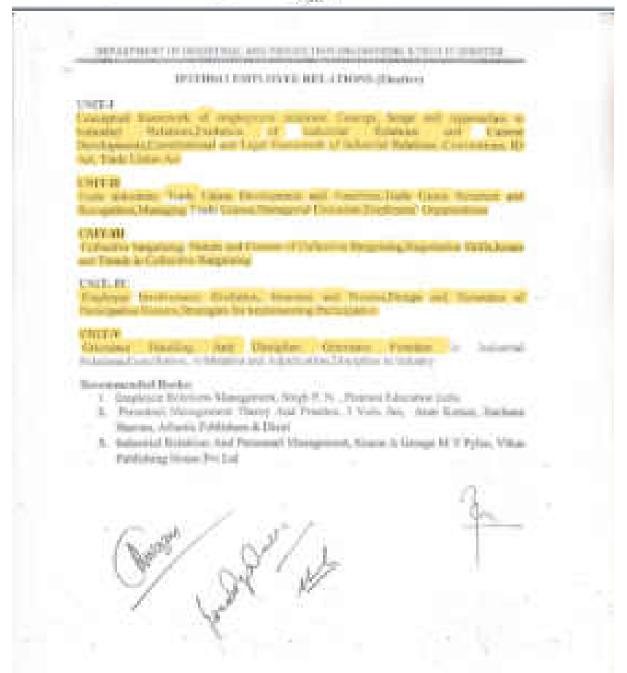
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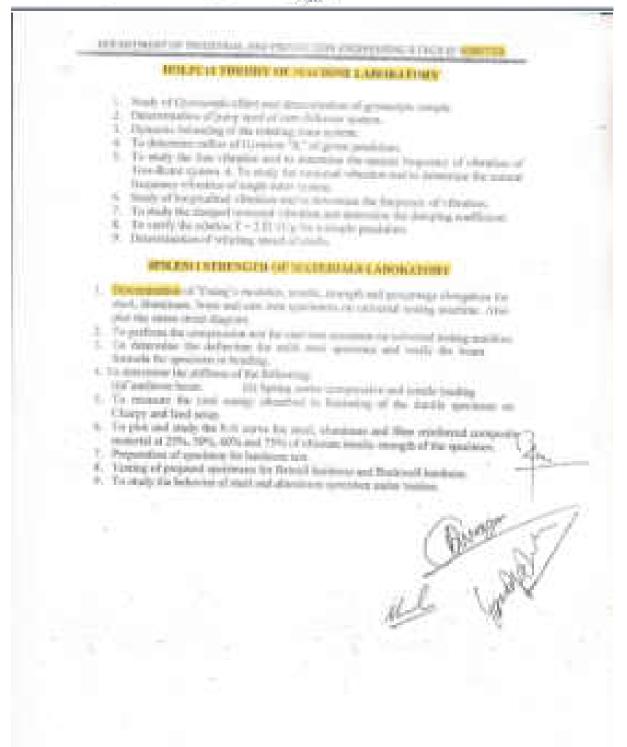
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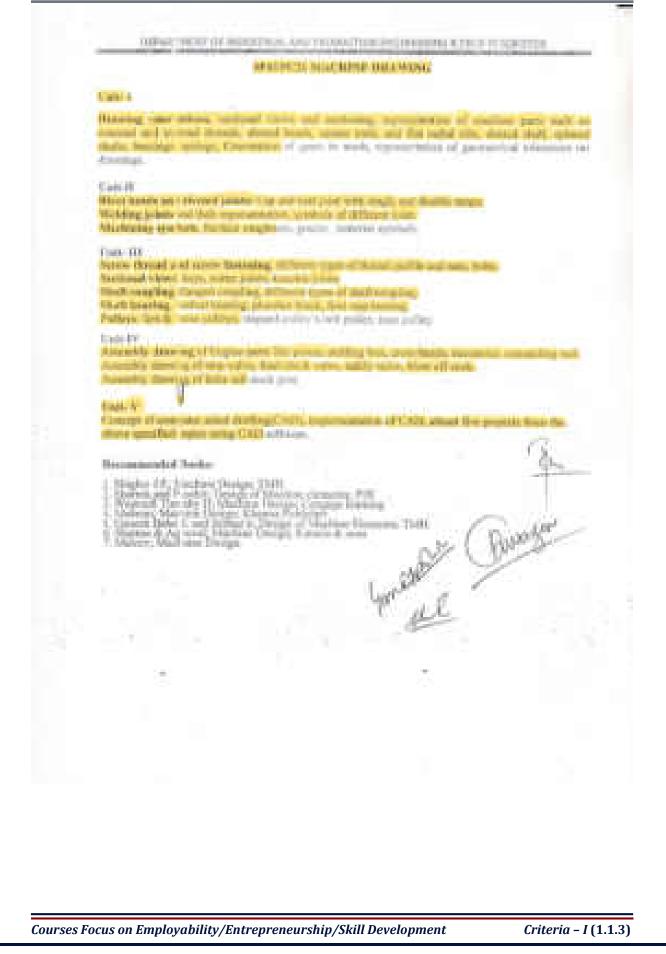
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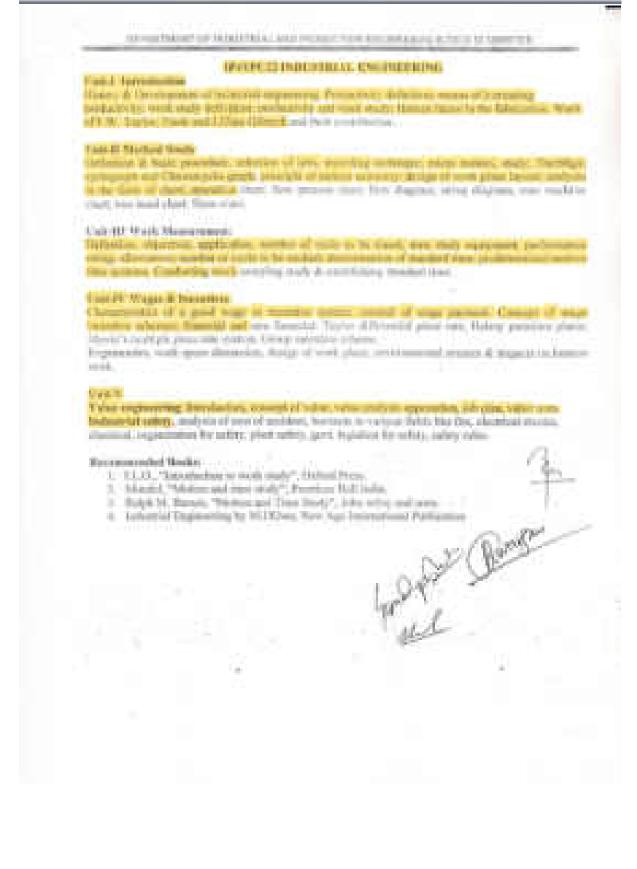
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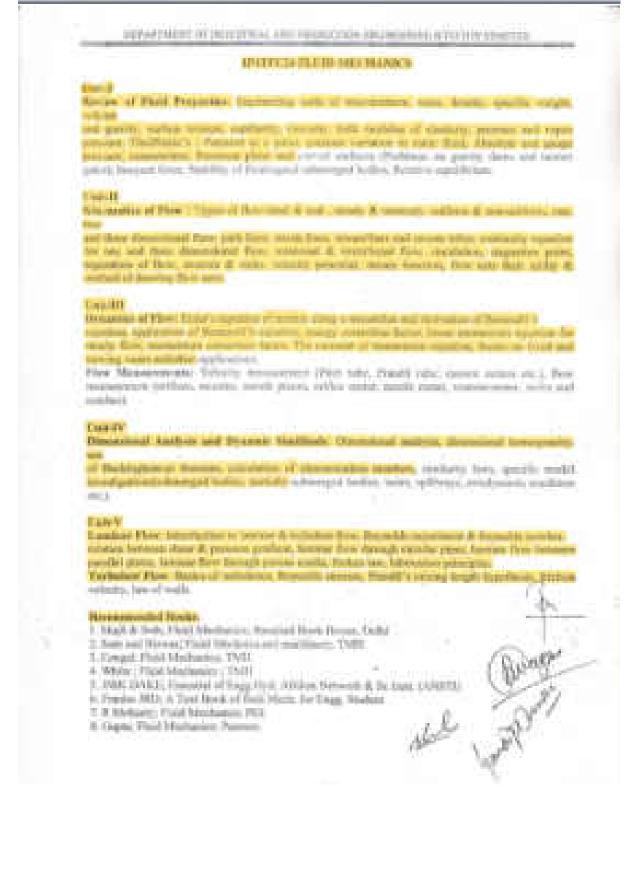
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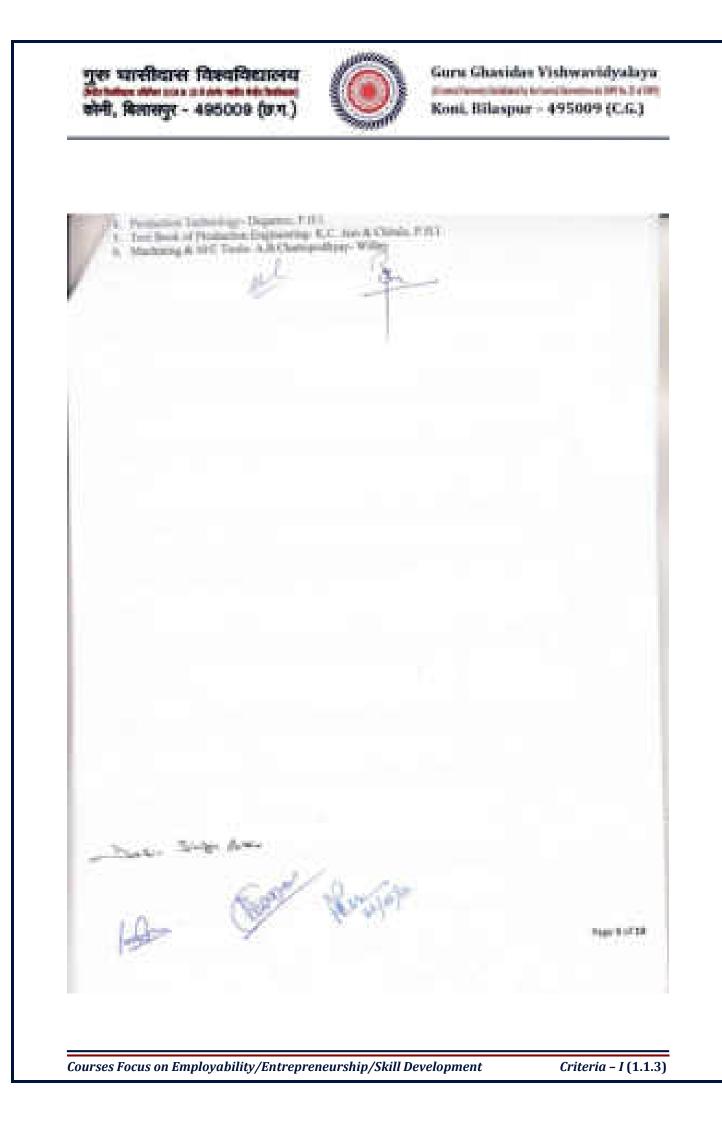


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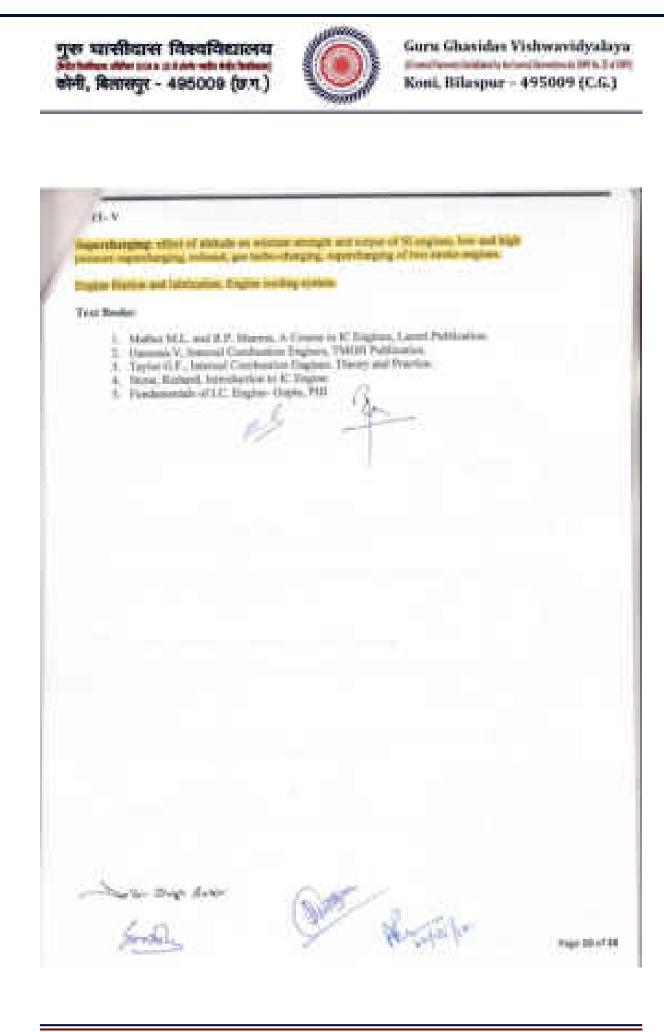
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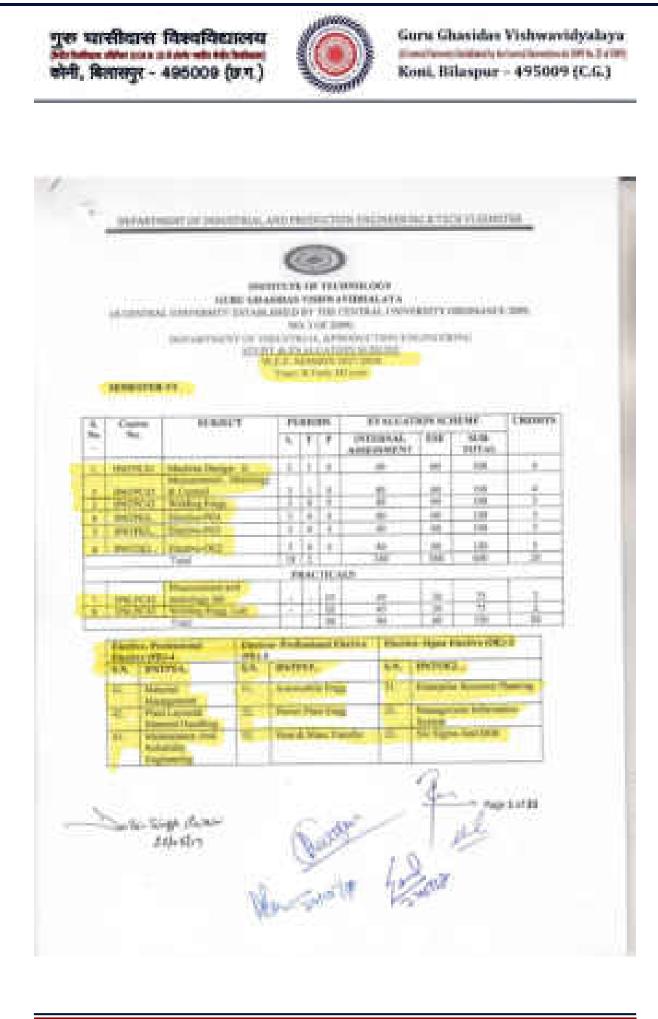
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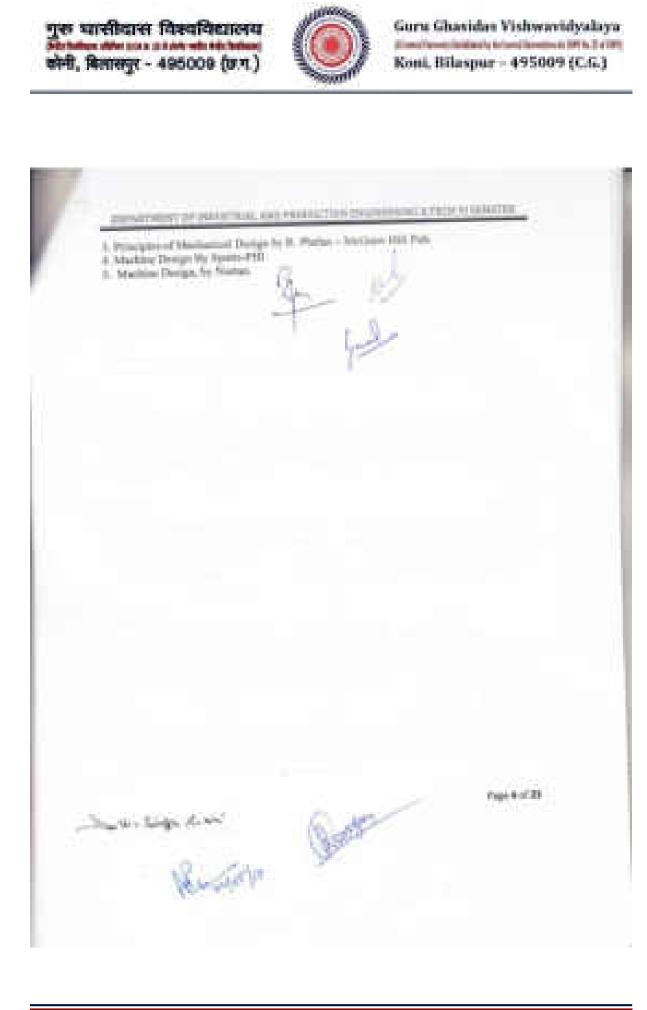
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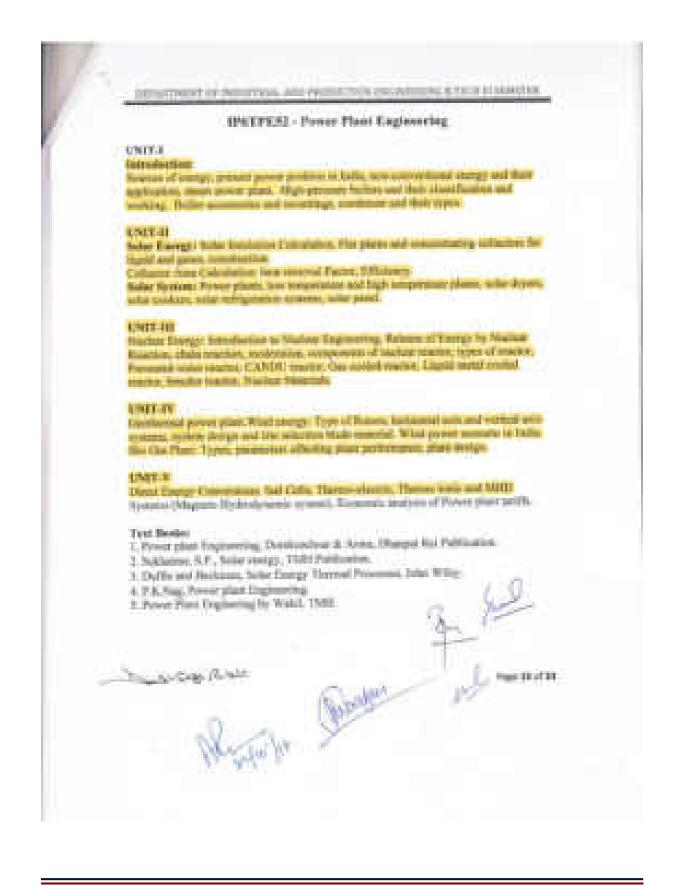
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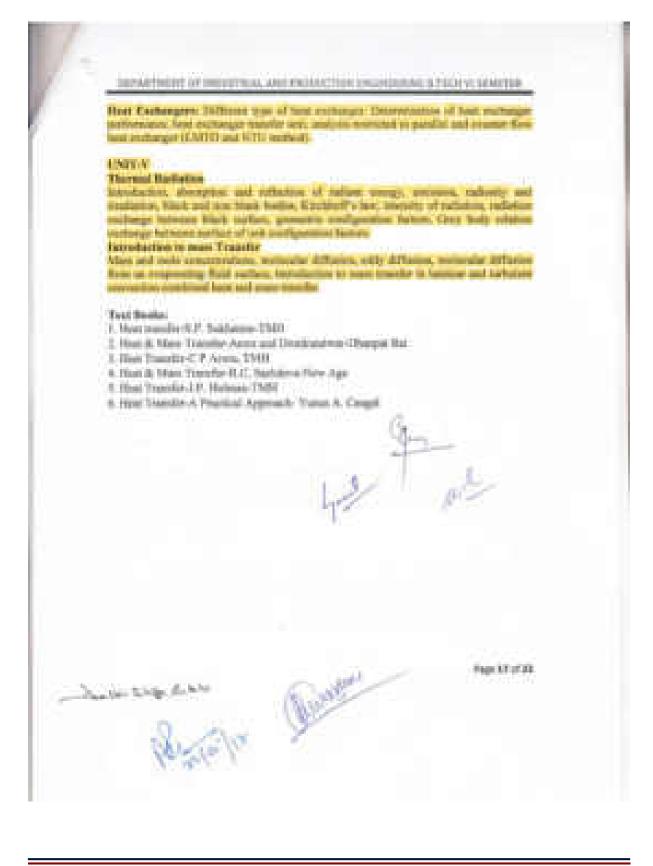
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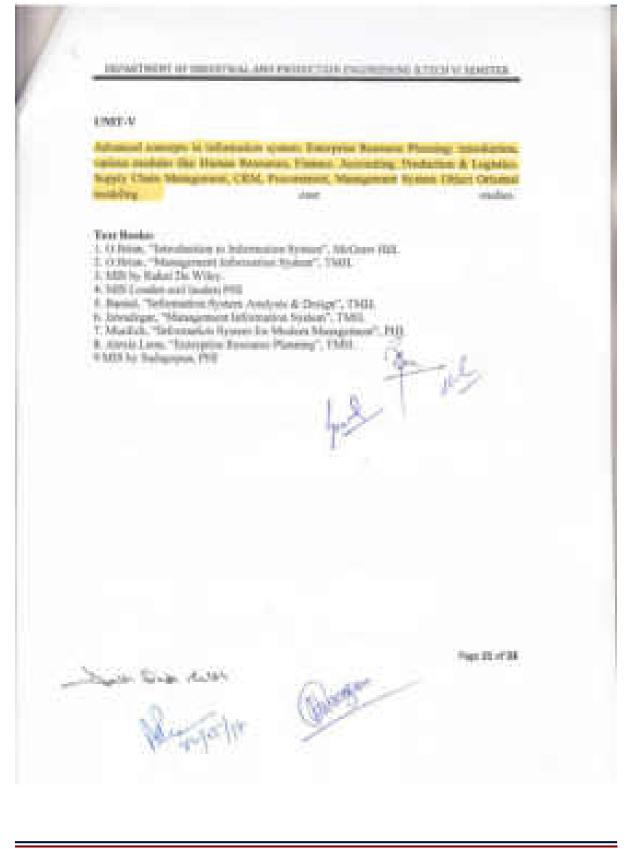


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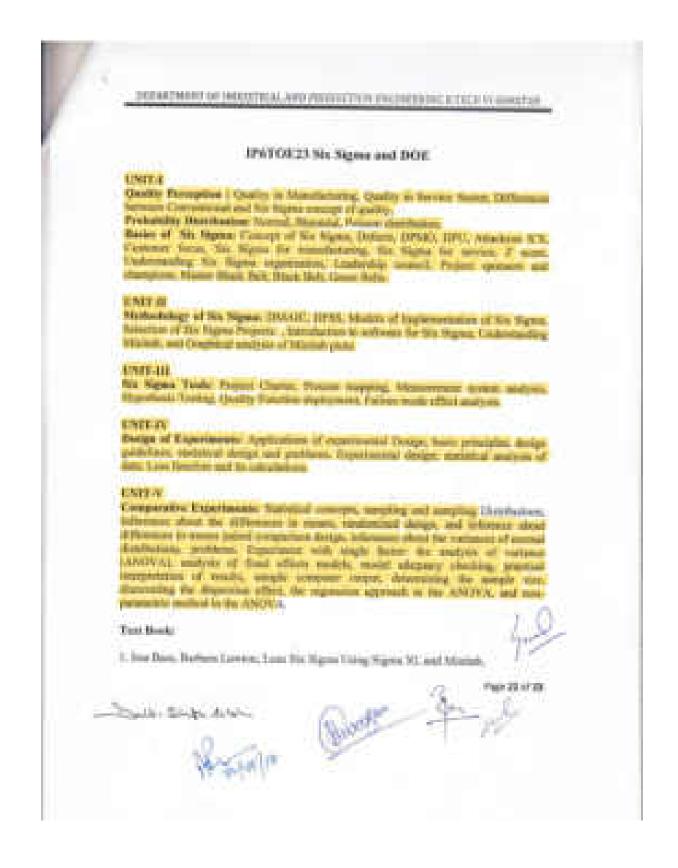


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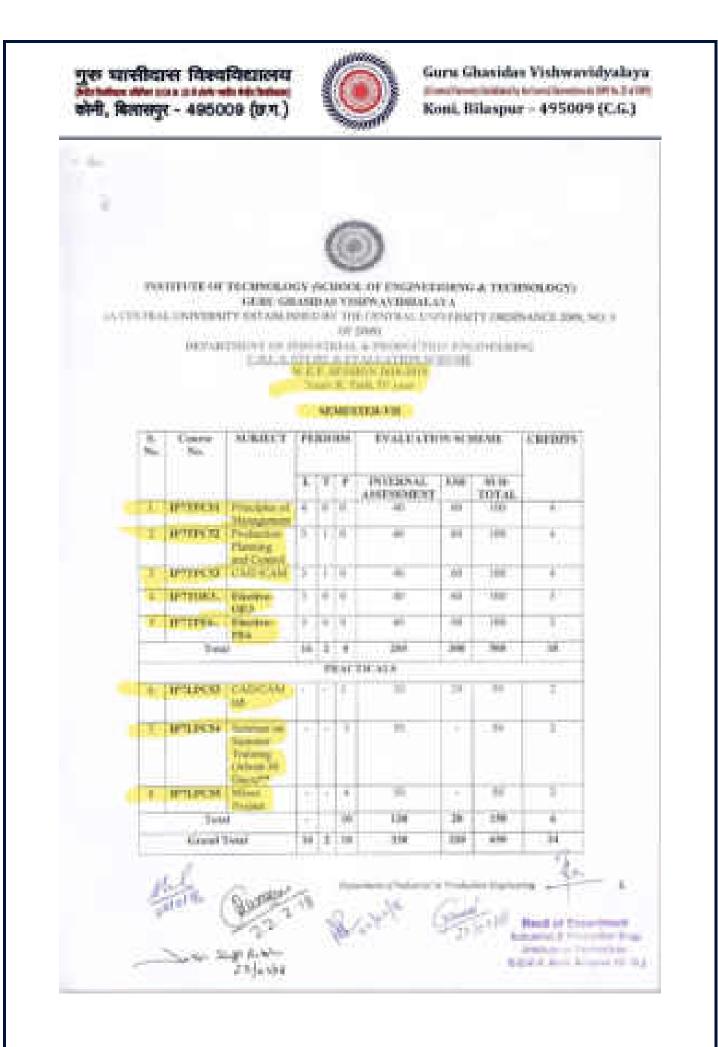
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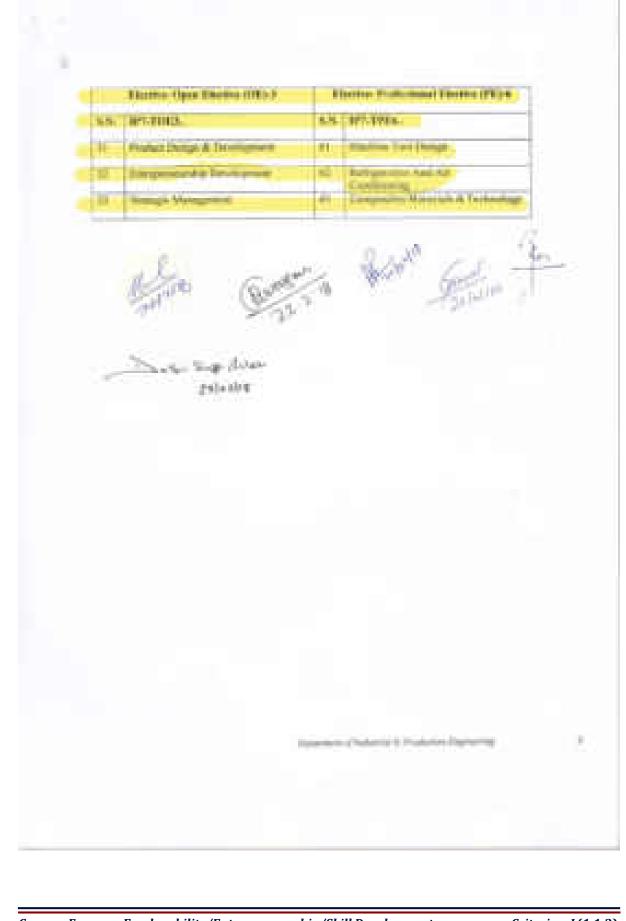


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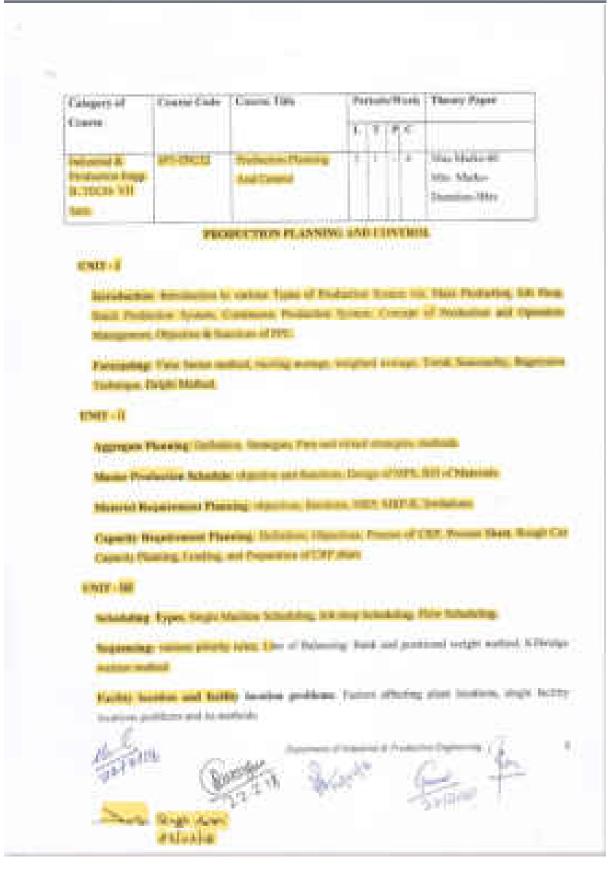
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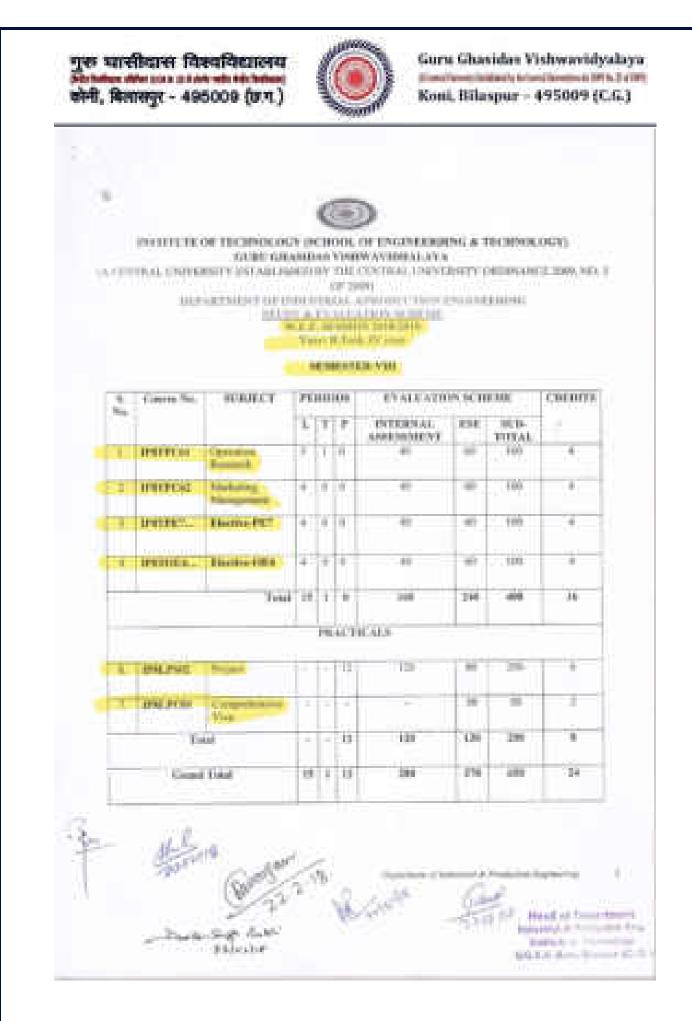
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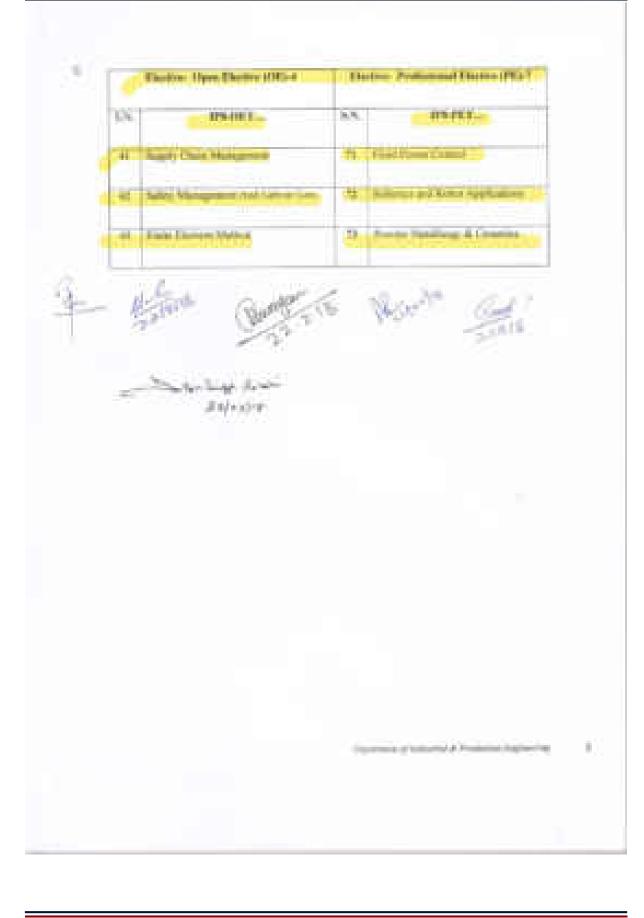
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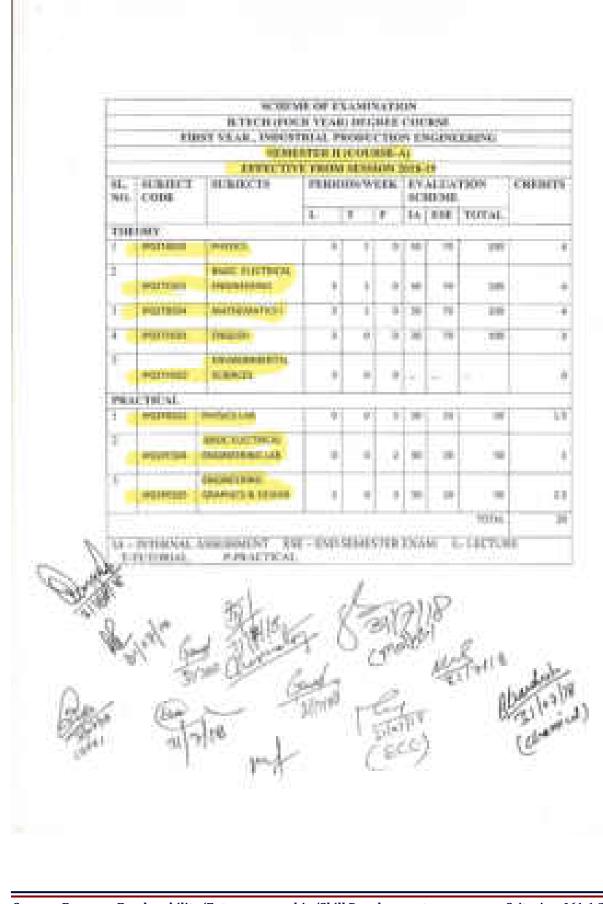
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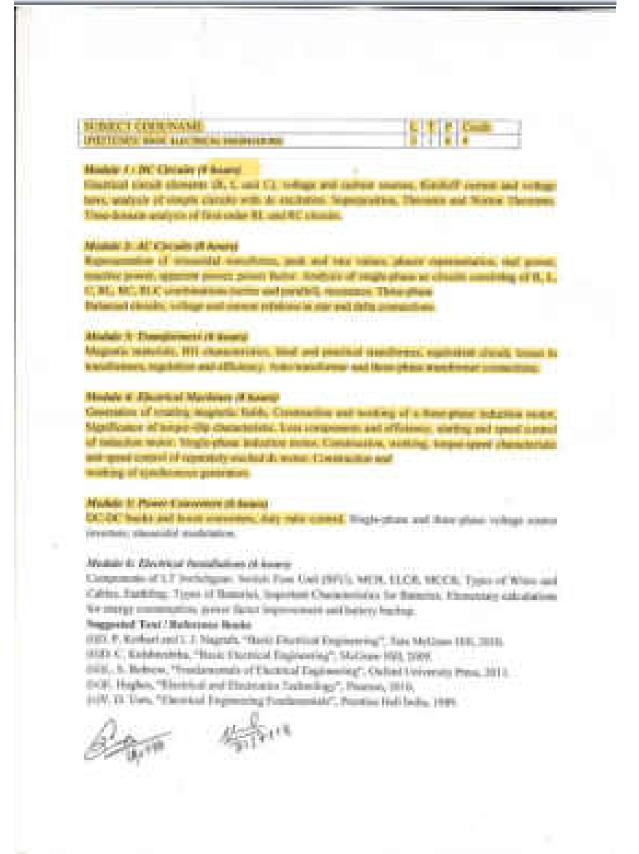
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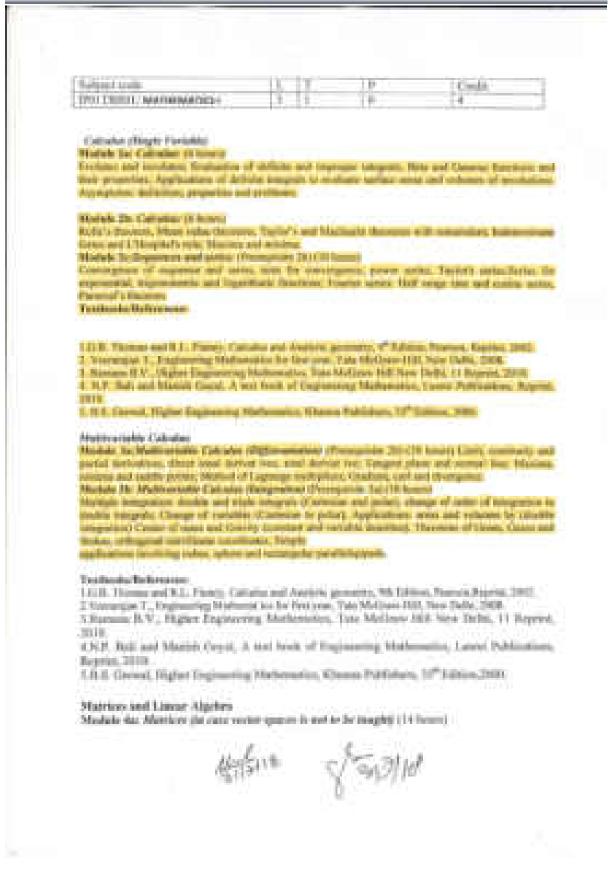
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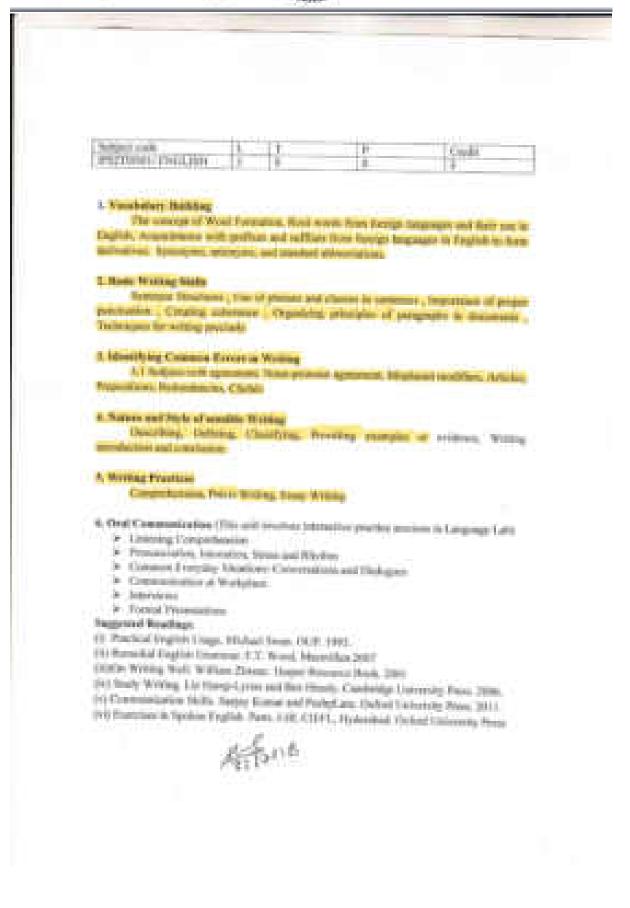
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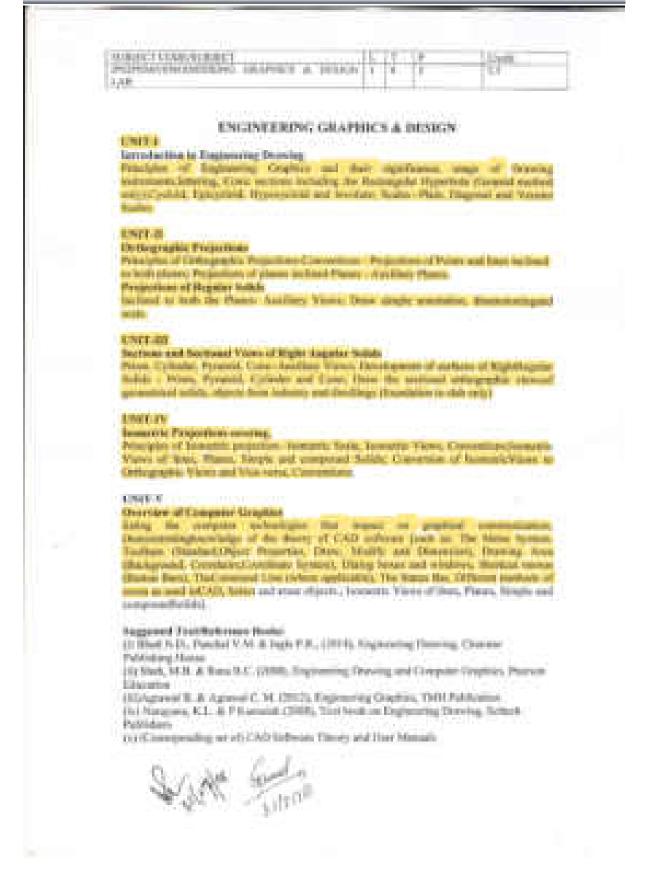
Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria – I (1.1.3)

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COURSE LEARNING OBJUCTIVES.

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COLUMN LAWARDS, ORDER TOTAL

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- Understand the Disconverse of Internet Advantagement of International Property (IP).
- Agreeting and approve Address of management (\$750) approaches and describing law parameters there appears approach patients performed (\$750) programs.
- · Explain how as down value from IP and leverage its value move product and some development.

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- Balagness for stocked role of D² is regeneration of different inferred random for the preprint of product and industry development.
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- · Autors estimated and produces and concer which wild in the antidectual property right content.
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- Environments + manufes to almostly, apply and assess or worthly tights and marketing preserving on the

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COURSE COMPARENTS

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MODULE-II

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TEXT & REPERENCE BOOKS

- 3 Inschurbel Property Right, Debresh V. Bouchast, 4K Litture, 2013, Campup Lineausy.
- Sendharmel Pesperty Right: Unknowing the Riservicitys Economy, Parlachtha Liangell, 3 ed. Edition, 2005. Ten Melihaw Hill Parliening Comprey LM.

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COURSE LEARNING OBJECTIVES:

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- Write the examinition of machiness processis, experiment of decign and matched using biomates.
- Evolution the rate of optional attention of teachering personators:

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- · Angles for prevenues of test pails and only expressions models of teaching processes.
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COURSE CONTRACT:

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MODULE - III

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- 2 Corgany Askel Engravoren, Thesi Bolivaria, TMR Politikara
- 3. Compress Aster Design and Alberthemang, Solits Yangh, Klasser Publisher
- A. Computer Added Process Planning R.P. Wang and LK, Ed. Elseviet feature and Technology Publishers, 14 address, 1991.
- 5. Congress Askel Process Planning, Insigh Tulkoff, SMI, Publications.

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TEXT & MEPEHENCE BOOKS

- Digital Electronics: An Introduction in Theory and Practice, William N. Goldmann, PHI Learning Persons Limited.
- Hightel Computer Electromate: the Introduction to Manuscomputers, fillert Parl Malvano, Tem Melliam-Hill Problems Computer 114.
- Microgeneeuw Acceletation, Programming, and Applications with the 4003, Ramoth Genetary, PENRAM International Publishers.
- 1. Diplot Control Network, Bergmon C. Koo, Oxford University Press (24, Indon Hilling)
- 5. Microsompone Experimentation with the land 3DE-49, Lance A. Leventhal, Printine Hall,

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List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department

: Industrial and Production Engineering

Programme Name : *M.Tech.*

Academic Year : 2021-22

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
01.	IPPATT1	COMPUTER AIDED DESIGN
02.	IPPATT2	FUNDAMENTALS OF ROBOTICS
03.	IPPATP1	COMPUTER INTEGRATED MANUFACTURING
04.	IPPATP2	RAPID PROTOTYPING AND TOOLING
05.	IPPATP3	SUPPLY CHAIN MANAGEMENT
06.	IPPATP4	ADVANCED MANUFACTURING PROCESSES
07.	IPPATP5	MECHANICS OF SHEET METAL FORMING
08.	IPPATP6	MICRO-MANUFACTURING
09.	IPPATP7	MODELING & SIMULATION
10.	IPPATP8	THEORY OF VIBRATION
11.	IPPATP9	ARTIFICIAL INTELLIGENCE
12.	IPPATC1	RESEARCH METHODOLOGY& IPR
13.	IPPALT1	CAD-CAM LAB
14.	IPPBTT1	FINITE ELEMENT ANALYSIS
15.	IPPBTT2	ROBOTICS AND CONTROL
16.	IPPBTP1	GREEN MANUFACTURING
17.	IPPBTP2	ADVANCE OPERATION RESEARCH
18.	IPPBTP3	TOTAL QUALITY MANAGEMENT

Courses Focus on Employability/Entrepreneurship/Skill Development

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IPPDPT1



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DISSERTATION STAGE-II

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Scheme and Syllabus

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OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM (CBCS)

> MASTER OF TECHNOLOGY IN CAD-CAM AND ROBOTICS

COURSE STRUCTURE AND SYLLARI

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DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING SCHOOL OF ENGINEERING & TECHNOLOGY, GGV, BILANPUR, C.G. (INDIA) गुरू यासीवास विश्वविद्यालय कोनी, बिलासपुर - 495009 (छ.ग.)



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COURSE CONTRACTS

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- 3. Mapley, "Introduction of All robotics", MIT press.
- Sogwart R., Fourfaillels I.R. & Searanness D., "Introduction to Automation Mathias Robert", MIL parts.
- 2. Repelie Leaner, "Channeed Assid Velleder: Endoskied Control", Wiley Publisher.
- 8. Gaeth I. Monhann, Burlus H., Rall'S. & Hearth S., "Robot Gargerer", Wiley Pehilular.

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IPPATP2 SUPPLY CHAIN MANAGEMENT

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COURSE CONTRACTS

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Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria – I (1.1.3)

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Test Books and References

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IPPATPS MICRO-MANUFACTURING

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Courses Focus on Employability/Entrepreneurship/Skill Development

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Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria – I (1.1.3)

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IPPATPRTHEORY OF VIBILATION

Course Objectives.

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- watch in the state
- 2 (Decomplete a sumption and alters to the particled and have of situation producers)

Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria – I (1.1.3)

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- 3. Center reads from the motion model is physical characteristics of the setual coston
- To be able to conformatively model and world mechanical vehicles petitions

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- Demotion the notional frequency of transverse takentoons of the shaft and toronaut relations of roots represent.
- Applicate the conditional and allogs of the two degrees of feedback systems and deglines about the working principle of offenders describes:
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- 4. Schot the summarial methods to determine actual Despension of the beam and note entremi-
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COURSE CONTENTS

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- 8 Mercrieft, L.,*Austricolaetholiaetholiaetholio/politideethy Mecadlas (1967)

IPPATPS ARTIFICIAL INTELLIGENCE

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- 2. Its pre-substanting of the main electronics and immuning the beniligent system.
- To exclude the stations to restational the bienc prosciption of Artificial intelligence to version applications.

Course Christians

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- 2. Define the concept of Artificari hieffigeness.
- 8. Apply All Industry to and would problem to develop advilaged restores.
- 8. Sebent oppregnizerity fires a rouge of includance where anythematay anothers recommen-

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COURSE CONTENTS

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- 2 Juny Kaolik, "Artificial Delilignus", Corgoge Leoning, 2011.
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IPPATCI RESEARCH METHODOLOGYA IPR

Course Objectives

The effective of this course is to

- To familiation perturbative with house of second, and the research process.
- 2. To make the perturbative with basic miderstanding of types of data and data collectors
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- To could be participants incoming research with and downlating research compare and report.
- 4. To inadictic perturbate with \$19.
- a. The respect harvefulge for enabling realistes to develop data and place attills and memoryful integrations to the data are so as bounded the vessels have problem.

Course Ontempos:

Stadate 1

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- Enderstand research problem formulation:
- 2. Applying transmits antidend to Economics
- 3. Exiline parameterization
- 4. Understanding that when IPR would take with important place to provide al individuals de nation, it is modern in maghinis the used of independent short her former?
- 1. Blain to be presented many, making an provid & suggestioning as portioning

COURSE CONTRACTS

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Madala 2

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- 2 Recently Methodology Mathods and Tackenpast, C.K.Kathari, New Age International
- 3. Design and Analysis of Esperiments, D.C. Martpornery, Wiley

4. Applied Indiates & Periodshity for Engineers, D.C. Mortganarty & G.C. Banger, Wiley

- 5 Management Research Methodology Integration of Principles, Methods and Techniques, K. N
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- 6. Camprochast reportation is building 20 disting and 3D moduling suffering systems
- 2. Abelow for Interior of Chill Multime Tool.
- Expose stabuts to basilize counsil systems (Fismer, Tensors etc.).
- 1. Give represent to address tasks and of to and yet requirements problems
- 8. One report of different apple tions of workdow and analysis wells

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- 8. Che intentio viewo and datentioning of part madels
- 8. Machine magie arresonant on CUC anishmer
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- Development of Automatic for decars of any machanizat element and version.
- Development of other and for analysis of two descensions' themest using FDM technique:
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Will effect from Augmenic Fee 2021-02

- 8. Enderstand the dynamic behaviors and support ty presentions of achieved exhan-
- Apply the manage of order council theory wait in replaceton to over electrolize.
- Englane the sensing of ortificial intelligence and satisfies framing algorithms usual to induce COURSE CONDENSE.

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- 7. You J. & Laugari K., 'Forty Lyge: Intelligence, Control, and Information', Pearson Publisher...

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- 4. Taylor for analytical process of press sample branches
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COURSE CONTRACTS

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IPPRTPLADVANCE OPERATION RESEARCH

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- Amountaine and device complete contents
- 2. To employ the beau concepts of LPP and success sufering techniques.
- 5. To take we id asymmet, trappetides, income and value effet to hopes.
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Course Outcome

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- Resembles: enderstand and modures for analytical solution of Singles, rather, Asseptement analytics, Tamparetation problem and adapted spins assessment with effective assaures.
- Consistentiand and its apply business well that arbitrary tasks of the vertices in independent the lask factorized for any and proceed works operations.

6. Explore the analytics of Immunol development and arriver of optimization belowgene. COLUMN CONTENTS

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- 1. Operation Research, 'Davery and Application By J.R. Vlampi, Mantallas Iolia.
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IPPRIPTIOTAL QUALITY MANAGEMENT

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- L. Apply and matters the County of Reliability and Expedic Philosophy for Quality

CARDIN OWNERS.

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- 1. Develop conceptual automotion of Quality, Quality cost and value
- 2 Rodyn and deniky control darts for Databast Quality Control
- 8. To apply the innected prof spallby second and its tools for present appeletity.
- Acutive and develop sampling plans for asseptance compliant:
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Courses Focus on Employability/Entrepreneurship/Skill Development

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COURSE CONTRACTS.

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IPPIETPI SMART MATERIALS AND APPLICATIONS

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COURSE CONTRACTS

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IPTOTOL INDUSTRIAL SAFETY

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Courses Focus on Employability/Entrepreneurship/Skill Development

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- I. bipetity a publica based on the next codyrin of consumery tarbuity remaining
- 2. Crown a flow-that of methodology for tolong for identified problem.
- Demonstrate turns work with work threader, trans solutions and communities among turns members.
- Wete technical argues for the project work and percent the many through power pand presentations or power

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Will effect from Assession Feet 2022.02

6. Detaillis the components of others like stees, likinges, stree contains surfault effection.

Los of Experiments

(1) Assumed at all the two washes over the transmission

(1) Decomposition of policy with 1 shell, 5 shell it shell one

(1) This action more programming the robot for applications.

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