**MIT MUZAFFARPUR**

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**COURSE FILE OF**

**PRACTICES OF LEATHER MANUFACTURING-III**

**(071824)**



**Faculty Name:**

 **MANIKANT KUMAR**

**ASSISTANT PROFESSOR, DEPARTMENT OF LEATHER TECHNOLOGY**

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**VISION STATEMENT**

* To emerge as a national leader in graduate level studies in all sub areas of leather field and to make significant contribution to the development of the society, industry, nation and the world.

**MISSION STATEMENT**

* Educate leather technology students to produce quality engineers who serve leading firms and different sectors of the industry and can work in multi-disciplinary environment to anticipate and address evolving challenges of the 21st century in tanning and footwear industry.
* Impart high performance knowledge in leather and footwear sector that are economic and environment friendly.
* To establish national leadership and provide technological support to the Indian leather industry.
* Improve fundamental knowledge of inter relationship between the built environment and natural systems.

**PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):**

After successful completion of program, graduates will be able to

**PEO1:** Work in the Leather and chemical and footwear field.

**PEO2:** Pursue higher studies.

**PEO3:** Contribute in teaching, research and other developmental activities of Leather technology and its allied fields.

**PEO4:** Work in the multicultural and multidisciplinary groups for the sustainable development and growth of leather industry projects and profession.

**PROGRAMME OUTCOMES (PO):**

Students who complete the B.E. degree in leather technology will be able to:

1. An ability to apply knowledge of mathematics, science, and engineering,
2. The ability to conduct laboratory experiments and to critically analyze and interpret experimental data.
3. The ability to perform design in leather by means of design experiences integrated throughout the professional component of the curriculum.
4. An ability to function on teams, that must integrate contributions from different areas of leather technology towards the solution of multi-disciplinary projects.
5. An ability to identify, formulate, and solve Leather industries problems.
6. An understanding of professional practice issues in leather technology including professional and ethical responsibility.
7. An ability to write and speak effectively.
8. The broad education necessary to understand the impact of leather fields solutions in a global and societal context.
9. A recognition of the need for, and an ability to engage in life-long learning,
10. An ability to use the techniques, skills, and modern tools necessary for leather technology practices.
11. Possess a thorough understanding of techniques that are appropriate to environment and country.
12. Possess ability to estimate costs, estimate quantities and evaluate materials for leather manufacturing.

**COURSE OBJECTIVE AND COURSE OUTCOMES:**

|  |  |
| --- | --- |
| **Institute / College Name :** | MUZAFFARPUR INSTITUTE OF TECHNOLOGY |
| **Program Name** | B. Tech.Leather Technology |
| **COURSE CODE** | 071824 |
| **COURSE NAME** | **PRACTICES OF LEATHER MANUFACTURING-III** |
| **Lecture / Tutorial / Practical (per week):** | 3 – 0- 3 | **Course Credits** | 5 |
| **Course Coordinator Name** | MANIKANT KUMAR |

**Course objective:**

The objective of this course is to have a clear concept of anatomy of human footwear, last, shoe sizes and fittings and the designing procedure and the knowledge of footwear material and costing which have a wide use in leather industry, shoe industry and their allied fields.

 **Course outcomes (CO):**

**CO1**: To get ability to processing of goat glaze upper leather

**CO2**: To get knowledge for processing of Burton printed safety upper leather and semi chrome goat suede garment leather.

**CO3**: Understanding about processing of oil pull up leather and Processing of glove leather.

**CO4:** Ability to get recipe of different leather like Combination tanning, Embossing, Grain correction, Special effects by spray, Screen printing,

**MAPPING OF COs AND POs**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CO/PO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 2 |  2  | 2 | 1 | 1 |  1 | 1 |  1 | 1 | 1 |  1 |
| CO2 | 3 | 1 | 3 |  1 | 1 | 1 |  1 | 1 |  1 | 1 | 1 | 1 |
| CO3 | 3 | 3 | 2 |  2 | 1 | 1 |  1 |  1 |  1 |  1 | 1 | 1 |
| CO4 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |  1 | 1 | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Correlation level: 1- slight (Low) 2- moderate (Medium) 3-substantial (High)

**COURSE SYLLABUS:**

|  |  |  |
| --- | --- | --- |
| **Topics** | **Number of Lectures** | **Weightage (%)** |
| 1. INTRODUCTION.General practices and techniques involved in manufacture of different types of light leathers. | **02** | 05 |
|  |  |  |
| **2.** Glove kin, Resin upper, Glazed uppers, Lining leathers, Shoe suedes, Garment Swedes, Grain garment leathers, Gloving leathers. | **10** | 24 |
|  |  |  |
|  **3.** Sheep nappa, Suede garments, Uppers and safety uppers, Lining and diaphragm leathers. | **10** | 24 |
|  |  |  |
| **4.** Nubuck, Oil pull up leathers, Dressing of for skins and processing of reptiles. | **10** |  24 |
|  |  |  |
| **5.** Combination tanning, Embossing, Grain correction, Special effects by spray, Screen printing, Roller coating, Gravure printing, tie and dye leathers, imitation leathers. | **10** | **23** |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total no. of lectures/weightage** | **42** | **100 %** |

**MUZAFFARPUR INSTITUTE OF TECHNOLOGY**

**B.Tech. 8TH Semester (2016 Batch) PROVISIONAL TIME TABLE WITH EFFECT FROM 06.01.2020**

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| --- |
| **7thSEMESTER Leather technology ROOM NO. LB-1** |
|  | **9:00 - 10:00** | **10:00 - 11:00** | **11:00 – 12:00** | **12:00 – 1: 00** | **1:00 – 2:00** | **2:00- 3:00** | **3:00 - 4:00** | **4:00 – 5:00** |
| **MON** |  |  |  |  | **R****E****C****E****S****S** |  |
| **TUES** |  |  |  |  |  |
| **WED** |  |  |  |  |  |
| **THUR** |  |  |  |  |  |
| **FRI** |  |  |  |  |  |  |  |
| **SAT** |  |  |  |  |  |  |  |
| FACULTY NAME: MK: MANIKANT KUMAR PAPER NAME: LEATHER PRODUCT TECHNOLOGY-III |

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**STUDENTS LIST:**

|  |  |  |  |
| --- | --- | --- | --- |
| SL.NO. | ROLL NO. | AKU REG.NO. | NAME |
| 1 | 16LT08 | 16107107001 | ARCHANA KUMARI |
| 2 | 16LT20 | 16107107003 | RAVINDRA RAM |
| 3 | 16LT15 | 16107107004 | SURBHI SAURAV |
| 4 | 16LT11 | 16107107005 | AMAN SHRIVASTAVA |
| 5 | 16LT05 | 16107107007 | VIKASH KUMAR |
| 6 | 16LT19 | 16107107008 | DEEPSHI |
| 7 | 16LT16 | 16107107009 | RAKESH KUMAR SAH |
| 8 | 16LT14 | 16107107010 | RAKESH KUMAR |
| 9 | 16LT17 | 16107107011 | KRITIKA VAGMI |
|  |  |  |  |

NAME LIST OF B.TECH 2017 BATCH

LEATHER TECHNOLOGY BRANCH

|  |  |  |  |
| --- | --- | --- | --- |
| SL. NO. | ROLL NO. | AKU REG. NO. | NAME |
| 1 | 17LT15 | 17107107002 | VISHWAJEET KUMAR |
| 2 | 17LT14 | 17107107003 | ADITYA RAJ |
| 3 | 17LT16 | 17107107005 | VIJAYA BHARTI |
| 4 | 17LT10 | 17107107006 | SHAGUFTA FATIMA |
| 5 | 17LT13 | 17107107007 | ABHILASHA KUMARI |
| 6 | 17LT11 | 17107107008 | RAGINI SWARAJ |
| 7 | 17LT17 | 17107107009 | ABHISHEK KUMAR |
| 8 | 17LT08 | 17107107010 | ABHISHEK AMAN |
| 9 | 17LT18 | 17107107011 | ABHAY KUMAR |
| 10 | 18 LE LT(01) | 1710710700 | VIKASH KUMAR |
|  |  |  |  |

**Text Books:**

**TB1**-. INTRODUCTION TO THE PRINCIPLES OF LEATHER MANUFACTURE BY S.S. DUTTA

**TB2 -**THEORY AND PRACTICES OF LEATHER MANUFACTURE BY K.T. SARKAR

**COURSE PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic No.** | **Topic** | **No. of Lecture/ lecture no.** | **Text book** |
|  | **Introduction**  | **02** | **TB1** |
|  | General practices and techniques involved in manufacture of different types of light leathers. | 1-2 | **TB1** |
| **2.** |  | **10** | **TB2** |
|  |  Glove kin, Resin upper, Glazed uppers, Lining leathers,  | **2-5** | **TB2** |
|  | Shoe suedes, Garment Swedes,  |  6-8 | TB2 |
|  |  Grain garment leathers, Gloving leathers |  9-12 | TB2 |
| **3** |  | **10** |  |
|  | Sheep nappa, Suede garments,. | **13-17** | **TB2** |
|  | Uppers and safety uppers, Lining and diaphragm leathers | 17-22 | **TB2** |
|  4. |  |  **10** |  |
|  | Nubuck, Oil pull up leathers |  **23-27**  | TB2 |
|  |  Dressing of for skins and processing of reptiles. |  **28-32** | TB2 |
|  5. |  |  **10** | TB1 |
|  5. | .Combination tanning, Embossing, Grain correction,  |  **33-36** | TB1 |
|  | Special effects by spray, Screen printing, Roller coating,. |  37-39 | TB1 |
|  | Gravure printing, tie and dye leathers, imitation leathers |  40-42 | TB1 |
|  |  |  |  |
|  | **Total Number of Lectures** | **42** |  |
|  |  |  |  |

**DETAILS OF ASSIGNMENTS**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Assignment** | **Topic No.** |
| 1 | Assignment 1 | 1,2 |
| 2 | Assignment 2 | 3 |
| 3 | Assignment 3 | 4 |
| 4 | Assignment 4 | 5,6 |

**ASSIGNMENT 1**

PRACTICES OF LEATHER MANUFACTURING-III

1. State the utility of lining leather. Explain the manufacturing process of lining leather.

2. what is oil tanning . write the method of manufacturing of chamois leather.

**ASSIGNMENT 2**

1. State the manufacturing process of shrunken grain leather.

2. write about the East India tanned leather.

**ASSIGNMENT 3**

1. what is full chrome leather.

2. write about the glace kid leather.

**ASSIGNMENT 4**

1. Write about the physical characteristic of glove leather.

2. Explain the properties of glazed leather.

3. Deduce a recipe to make goat glazed leather for shoe from raw material of Muzaffarpur origin.