**COURSE INFORMATION SHEET**

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| --- | --- |
| **Session:** | Spring 2022 |
| **Course Title:** | Project Management |
| **Course Code:** | ELM-313 |
| **Credit Hours:** | 3+0 |
| **Semester:** | 6th |
| **Pre-Requisites:** | None |
| **Instructor Name:** | ENGR. Syed Shahrukh Haider |
| **Email and Contact Information:** | shahrukhh@ssuet.edu.pk |
| **WhatsApp Group** | EM-323 Project Management |
| **Office Hours:** | 08:30 - 22:00. (Monday-Friday)06:00 to 22:00 (Monday) |
| **Mode of Teaching:** | Synchronous / Asynchronous /🗹**Hybrid**(Blended) |

**Objective:**

To enable students to learn necessary managerial skills related to industrial requirement.

**Course Outline:**

Introduction to management: History of management, management functions, organizational structure, types of organizations, organizational hierarchy, properties of narrow and wide organizations, Production Processes: Types of production, scale of production, selection of technology, input requirements, capacity utilization, productivity basic concepts, classification, quantitative measurement, productivity improvement., Project Management: Properties of projects, project life cycle, project network analysis, resource requirements, monitoring and control, computer tools., Inventory Management: Inventory replenishment, economic lot size, re-order point, safety stock level, JIT, computer tools, Human Resource Management: Management styles, psychological types, recruitment and training, job evaluation, performance appraisal, motivation and incentives.

**COURSE LEARNING OUTCOMES (CLOs) and its mapping with Program Learning Outcomes (PLOs):**

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| --- | --- | --- | --- |
| **S.No.** | **Course Learning Outcomes (CLOs)** | **PLOs** | **Bloom’s Taxonomy** |
| 1  | **Apply** the concept of management in engineering &**demonstrates** the responsibilities of an engineer relevant to professional management practiceswith respect to an engineering project, environment & sustainability.  |  PLO\_7 (Environment & Sustainability)  | C3 (Applying)  |
| 2  | **Identifies**the strengths, weaknesses and opportunities in life cycle of an engineering project  |  PLO\_11 (Project Management)  | A3 (Organization)  |
| 3  | **Demonstrate** the essential skills necessary for an engineering project management.  |  PLO\_11 (Project Management)  | C3 (Applying)  |

**COMPLEX ENGINEERING PROBLEM/ACTIVITY:**

|  |  |
| --- | --- |
| **Complex Engineering Activity Details**  | **Included: No**Activity (CEA): N.A. |

**RELATIONSHIP BETWEEN ASSESSMENT TOOLS AND CLOs:**

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| --- | --- | --- | --- |
| **Assessment Tools** | **CLO-1****(30)** | **CLO-2****(30)** | **CLO-3****(40)** |
| **Quizzes** | 17% (05) | 17% (05) | - |
| **Assignments** | 17% (05) | 17% (05) | - |
| **Midterm Exam**  | 33% (10) | 33% (10) | 25% (10) |
| **Final Exam**  | 33% (10) | 33% (10) | 75% (30) |

**GRADING POLICY:**

|  |  |
| --- | --- |
| **Assessment Tools** | **Percentage** |
| Assignment | **10%** |
| **Quizzes** | **10%** |
| **Midterm Exam**  | **30%** |
| **Final Exam**  | **50%** |
| **TOTAL** | **100%** |

**Recommended books:**

1. Babcock d. L. Managing engineering and Technology, Prentice Hall, UK.

2. Zuberi M. H. Industrial management, Rabbani Printing Press, Lahore.

3. Bateman T. S. and Snell S. A. Management: building competitive advantage. Times Mirror Higher Education Group, USA.

4. Spinner M. Elements of project management. Prentice Hall, UK

5. Kathy Schwalbe, [An Introduction to Project Management, Seventh Edition: Predictive, Agile, and Hybrid Approaches](https://www.amazon.com/Introduction-Project-Management-Seventh-Predictive/dp/B09F16LTVV/ref%3Dsr_1_7?keywords=project+management&qid=1647242390&sr=8-7), 7th Edition, McGraw-Hill Companies Inc. NY, 7-edition (2012), ISBN: 978-0-07-337630-1.

**Reference Books:**

1. [**Joseph Heagney**](https://www.amazon.com/Joseph-Heagney/e/B00DWGCIX6?ref=sr_ntt_srch_lnk_15&qid=1647242390&sr=8-15)**,** [***Fundamentals of Project Management***](https://www.amazon.com/Fundamentals-Project-Managementw-Joseph-Heagney/dp/0814437362/ref%3Dsr_1_15?keywords=project+management&qid=1647242390&sr=8-15)***,*** 6th Edition, HaperCollins Leadership(2016), ISBN: **978-1400235261**

**LESSON PLAN**

**Course Title:** Engineering Economics &Management

**Course Code:** HS-301

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week No.** | **Lesson No.** | **Lesson Date** | **Topics** | **Required Reading** | **Key Date****Remarks** |
| **1** | 1 |  | An Introduction to Project  | Chap#01A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | An Introduction to Project Management | Chap#01A Introduction to Project Management(Kathy Schwalbe) |  |
| **2** | 2 |  | An Introduction to Portfolio Management | Chap#01A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | An Introduction to Program Management | Chap#02A Introduction to Project Management(Kathy Schwalbe) |  |
|  **3** | 3 |  | Program Selection | Chap#02A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Portfolio Selection | Chap#02A Introduction to Project Management(Kathy Schwalbe) |  |
|  **4** | 4 |  | Initiating Projects | Chap#03A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Initiating Projects (cont’d) | Chap#03A Introduction to Project Management(Kathy Schwalbe) |  |
|  **5** | 5 |  | Project integration Management | Chap#04A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Project Scope Management | Chap#04A Introduction to Project Management(Kathy Schwalbe) | **Quiz # 01** |
|  **6** | 6 |  | Project Time Management | Chap#05A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Project Cost Management | Chap#05A Introduction to Project Management(Kathy Schwalbe) |  |
|  **7** | 7 |  | **Pre-Midterm Revision** | Chap#01 - 5A Introduction to Project Management(Kathy Schwalbe) | **Assignment # 1** |
|  |  | Chap#01 -5A Introduction to Project Management(Kathy Schwalbe) |  |
|  **8** | **Midterm Examination**\_\_ /\_\_ /2022 -- To -- \_\_ /\_\_ /2022 (Midterm-Week) |
|  **9** | 9 |  | Project Quality | Chap#06A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Human Resource | Chap#06A Introduction to Project Management(Kathy Schwalbe) |  |
|  **10** | 10 |  | Communication & Stakeholder | Chap#06A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Risk & Procurement Management | Chap#06A Introduction to Project Management(Kathy Schwalbe) |  |
|  **11** | 11 |  | Executing Project | Chap#07A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Monitoring Project | Chap#08A Introduction to Project Management(Kathy Schwalbe) |  |
|  **12** | 12 |  | Controlling Project | Chap#08A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Closing Project | Chap#09A Introduction to Project Management(Kathy Schwalbe) |  |
|  **13** | 13 |  | Best Practice in Project Management | Chap#10A Introduction to Project Management(Kathy Schwalbe) |  |
|  |  | Case Studies Review | Chap#01A Introduction to Project Management(Kathy Schwalbe) |  |
|  **14** | 14 |  | **Class Activity**(student has to presentation some project idea along with project management element) |  | **Assignment # 2** |
|  |  |  |  |
| **15** | 15 |  | Report Writing  |  | **Quiz # 02** |
|  |  | Analysis & Solution  |  |  |
|  **16** | 16 |  | Revision |  |  |
|  |  | Revision |  |  |
|  | **Final Examination**\_\_ /\_\_ /2022 -- To -- \_\_ /\_\_ /2022 (Exam-Week) |

**(\*M)** = Make-up Week Class