**Lesson Plan of the 5th semester for session 2021-22**

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| **Name of the faculty:** | Ms. Neha Malik |
| **Designation :** | Assistant professor |
| **Discipline :** | Computer Science and Engg. |
| **Semester :** | 7th |
| **Subject :** | **SOFTWARE PROJECT MANAGEMENT(PEC-CSE-403G)** |
| **Lesson Plan duration :** | 15 weeks |
| **Work Load per week in hours:** | Lectures- 03 ,Tutorial-01 |

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| **Week** | **Lecture**  **day** | **Topic (Including Assignment/Test)** |
| **UNIT – I** | | |
| 1 | 1 | Definition of a Software Project (SP), SP Vs. other  types of projects activities covered by SPM, |
| 2 | Categorizing sps, project as a system, management control |
| 3 | Requirement specification, information and control in organization. |
| 2 | 4 | Stepwise Project planningIntroduction, selecting a project |  |
| 5 | Identifying project scope and objectives |
| 6 | Identifying project infrastructure |
| 3 | 7 | Analyzing project characteristics, identifying project products and activities |
| 8 | Estimate efforts each activity |
| 9 | Identifying activity risk, allocate resources, review/ publicize plan. |
| 4 | 10 | Cost benefit analysis, cash flow forecasting, cos t benefit  evaluation techniques |
| 11 | Risk evaluation. Selection of an appropriate project report |
| 12 | Choosing technologies choice of process model, structured methods, rapid application development, water fall |
| 5 | 13 | V-process |
| 14 | Spiralmodels, Prototyping, delivery. |
| 15 | Albrecht function point analysis. |
| 6 | 16 | Activity planning & Risk Management Objectives of activity |
| 17 | Project schedule, projects and activities, sequencing and scheduling activities, |
| 18 | Network planning model, representation of l gged activities, |
| 7 | 19 | Adding the time dimension, backward and forward pass, |
| 20 | Identifying critical path, activity |
| 21 | Throat, shortening project , precedence networks. |
| 8. | 22 | Risk Management: Introduction, the nature of risk, |
| 23 | managing risk, risk identification, risk analysis, reducing  the risks, evaluating risks to the schedule, |
| 24 | calculating the z values.. |
| 9. | 25 | **Resource allocation &Monitoring the control**: Introduction, the nature of resources, identifying resource, |
| 26 | Requirements, scheduling resources creating critical paths |
| 27 | Counting the cost, being specific, publishing the  Resource schedule, cost schedules, the scheduling sequence. |
| 10. | 28 | Monitoring the control: Introduction, creating the frame work, collecting the data, visualizing progress |
| 29 | cost monitoring, earned value, |
| 30 | Prioritizing monitoring |
| 11 | 31 | Getting the project back to target, change control. |
| 32 | Managing contracts and people Introduction, types of contract, stages in contract, placement |
| 33 | typical terms of a contract, contract management, acceptance, |
| 12. | 34 | Managing people and organizing terms: Introduction, understanding behavior |
| 35 | organizational behavior: a back ground, selecting the right person for  the job, |
| 36 | Instruction in the best methods, motivation, working in groups, becoming a team |
| 13. | 37 | Decision making, leadership, organizational structures, conclusion, further exercises.. |
| 38 | Introduction, the place of software quality in project planning |
| 39 | The importance of software quality, defining software quality |
| 14. | 40 | ISO 9126 |
| 41 | Practical software quality measures |
| 42 | Product versus process quality management, external standards |
| 15 | 43 | Techniques to help enhance software quality. |
| 44 | Study of Any Software Project Management software Project 2000 or equivalent |
| 45 | Revision |