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| Learning method | the topic | Required learning outcomes | watches | week |
|  | |  | | --- | | Introductory lecture + discussion |  |  | | --- | |  | | Introduction to Systems Analysis :  Systems Analyst  System Development Life Cycle (SDLC)  Steps to build an information system  Basic stages in SDLC |  | First week |
|  | |  | | --- | |  |  |  | | --- | | Project Analysis Case Study | | Planning and Analysis :  Objectives  Steps  Outputs |  | The second week |
|  | |  | | --- | |  |  |  | | --- | | System Design Workshop | |  | | To design and implement :  Objectives  Steps  Outputs |  | The third week |
|  | |  | | --- | | Lecture and group discussion |  |  | | --- | |  | | For systematic design (SSADM):  Waterfall technology ,  parallel technology,  advantages and disadvantages |  | Fifth week |
|  | |  | | --- | | RAD Applications | |  |  |  | | --- | |  | | RAD Rapid Application Development :  Phased development technology  advantages and disadvantages |  | Week 6 |
|  | Practical beach using a miniature model | Prototypes :  Actual Models and Throwaways  Advantages and Disadvantages |  | The seventh week |
|  | |  | | --- | |  |  |  | | --- | | Agile Project Status Presentation | | For Agile Development :  Extreme Programming (XP)  Advantages and disadvantages |  | The eighth week |
|  | |  | | --- | | Role -play |  |  | | --- | |  | | Choosing the appropriate development approach  Team Roles and Skills: Business Analyst |  | Week 9 |
|  | |  | | --- | | group activity | |  |  |  | | --- | |  | | Definition and analysis of roles :  Systems Analyst,  Infrastructure Analyst,  Change Management Analyst  , Project Manager |  | The tenth week |
|  | |  | | --- | | Practical lecture​ |  |  | | --- | |  | | project management :  Project Sizing  Estimate the size of the system using Function Points Points​ |  | Week eleven |
|  | |  | | --- | | Group exercises |  |  | | --- | |  | | Estimates :  Estimate effort and time  Practical exercises |  | The twelfth week |
|  | |  | | --- | | Actual project analysis | |  |  |  | | --- | |  | | Create and manage a business plan :  Define tasks  Work Breakdown Structure (WBS) |  | thirteenth week |
|  | Practical training | For timelines :  Gantt  chart PERT chart |  | Fourteenth week |