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| Learning method |  the topic | Required learning outcomes | watches | week |
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| Introductory lecture + discussion |

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 | Introduction to Systems Analysis :Systems Analyst System Development Life Cycle (SDLC) Steps to build an information system Basic stages in SDLC |  | First week |
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| Project Analysis Case Study |

 | Planning and Analysis : Objectives Steps Outputs |  | The second week |
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| System Design Workshop |
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 | To design and implement : Objectives Steps Outputs |  | The third week |
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| Lecture and group discussion |

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 | For systematic design (SSADM): Waterfall technology , parallel technology, advantages and disadvantages |  | Fifth week |
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| RAD Applications |
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 | 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 |
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| Agile Project Status Presentation |

 | For Agile Development : Extreme Programming (XP) Advantages and disadvantages |  | The eighth week |
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| Role -play |

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 | Choosing the appropriate development approach Team Roles and Skills: Business Analyst |  | Week 9 |
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| group activity |
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 | Definition and analysis of roles : Systems Analyst, Infrastructure Analyst, Change Management Analyst , Project Manager |  | The tenth week |
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| Practical lecture​ |

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 | project management : Project Sizing Estimate the size of the system using Function Points Points​ |  | Week eleven |
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| Group exercises |

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 | Estimates : Estimate effort and time Practical exercises |  | The twelfth week |
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| Actual project analysis |
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 | Create and manage a business plan : Define tasks Work Breakdown Structure (WBS) |  | thirteenth week |
|  | Practical training | For timelines : Gantt chart PERT chart |  | Fourteenth week |