

BhojReddy Engineering College for Women: Hyderabad
Department of Electronics and Communication Engineering
Lesson plan of faculty member for the academic year 2019–20

Class: IV B Tech

Branch-Section: IT-A

Semester: II

Subject: Modern Software engineering

Lectures per week: 3

| Lecture Number | Topics to be covered | Date (s) |
|--|--|------------------|
| UNIT – I: Introduction Extreme Programming (XP) - Agile Development | | |
| 1 | Why Agile - Understanding Success | 23 December 2019 |
| 2 | Beyond Deadlines, Importance of Organizational Success | 23 December 2019 |
| 3 | Introduction to Agility | 24 December 2019 |
| 4 | Agile methods, Road to mastery | 30 December 2019 |
| 5 | Understanding XP (Extreme Programming) - XP life cycle | 30 December 2019 |
| 6 | XP team, XP Concepts, Adopting XP | 31 December 2019 |
| 7 | Implementing XP, Practicing XP | 6 January 2020 |
| 8 | Thinking, Pair Programming | 6 January 2020 |
| 9 | Energized work, Informative Workspace | 7 January 2020 |
| 10 | Retrospectives | 13 January 2020 |
| UNIT-II: Collaborating | | |
| 11 | Trust, Sit together | 13 January 2020 |
| 12 | Accommodating Poor Communication, Exploiting Great Communication Secrets of Sitting Together | 20 January 2020 |
| 13 | Real customer involvement | 20 January 2020 |
| 14 | Personal Development In-House Custom Development | 21 January 2020 |
| 15 | Ubiquitous language | 27 January 2020 |
| 16 | Meetings, coding standards | 27 January 2020 |
| 17 | Iteration demo | 28 January 2020 |
| 18 | Reporting | 3 February 2020 |
| UNIT-III: Releasing | | |
| 19 | Bug free Release, Invert Your Expectations | 3 February 2020 |
| 20 | Version Control | 4 February 2020 |
| 21 | Concurrent Editing Time | 17 February 2020 |
| 22 | Whole Project ,Customers and Version Control ,Keep It Clean | 17 February 2020 |
| 23 | Fast build, Automate Your Build | 18 February 2020 |
| 24 | The Continuous Integration Script ,Introducing Continuous Integration | 24 February 2020 |
| 25 | Collective ownership, Making Collective Ownership Work | 24 February 2020 |
| 26 | Product Documentation, Handoff Documentation | 25 February 2020 |
| UNIT-IV: Planning | | |
| 27 | Vision , Product Vision | 2 March 2020 |
| 28 | Release Planning, Release Early, Release Often | 2 March 2020 |
| 29 | Planning at the Last Responsible Moment | 3 March 2020 |
| 30 | Adaptive Planning and Organizational Culture | 10 March 2020 |
| 31 | Risk Management, Iteration Planning, The Iteration Timebox | 16 March 2020 |
| 32 | Slack, How to Introduce Slack, Research Time | 16 March 2020 |
| 33 | Stories, Story Cards | 17 March 2020 |
| 34 | Estimating, Velocity | 23 March 2020 |
| UNIT-V: Developing | | |
| 35 | Incremental requirements | 23 March 2020 |
| 36 | Customer tests | 24 March 2020 |

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| 37 | Test driven development | 30 March 2020 |
| 38 | Refactoring | 30 March 2020 |
| 39 | Incremental design and architecture | 31 March 2020 |
| 40 | Spike solutions | 06 April 2020 |
| 41 | Performance optimization, | 06 April 2020 |
| 42 | Exploratory testing | 07 April 2020 |

TEXT BOOKS:

- 1.The art of Agile Development, James Shore and Shane Warden, 11th Indian Reprint, O'Reilly, 2018.
2. Learning Agile, Andrew Stellman and Jennifer Greene, O'Reilly, 4th Indian Reprint,2018
3. Practices of an Agile Developer, Venkat Subramaniam and Andy Hunt, SPD, 5th Indian Reprint, 2015
4. Agile Project Management - Jim Highsmith, Pearson Low price Edition 2004

Name and signature of the faculty: Mr M Vinod ----

Name and signature of Head of the Department: Mr M Vinod ----