Department of Computer Science(Optional)

Revised Syllabus of II Year Advanced Diploma Program (PG)

II Year Advanced Diploma Programme

Title: Agile Project Management
Year of Implementation: 2020

3. Duration: One Year4. Pattern: Semester

5. Medium of Instruction: English6. Contact hours: 7 hours/week

8. Structure of Course:

Syllabus Structure (PG)

Year	Semester	Course No.	Course Code	Contact Hours	Credits (1Credit=15 H)	Total Marks
1		CT I	ADCST 101	30	2	75
	I	CL I	ADCSL101	60	2	150
		CT II	ADCST 202	30	2	75
	II	CL II	ADCSL202	60	2	150
	Annual	CP I	ADCSP101	60	2	150
			Total	240	10	600
2	III	CT III	ADCST 303	30	2	75
		CL III	ADCSL303	60	2	150
	IV	CT IV	ADCST 404	30	2	75
		CL IV	ADCSL404	60	2	150
	Annual	CP II	ADCSP 202	60	2	150
	Industrial and or Incubation and or Research and or Field Training			60	2	-
	Total			270	12	600
Total				510	22	1200

AD: Advanced Diploma, *: Departmental Code (C: Chemistry, MI: Microbiology,

CSE: Computer Science (Entire), etc)

C: Course, T: Theory, L: Lab (Practical), P: Project

Total No. of Papers: 10 (Theory: 04, Practical: 04, Project: 02) Theory and Practical: Semester,

Project: Annual

Semester III

CT-III: ADCST 301: Title:

(Contact Hrs. 30 Agile Foundation-II Credits: 2)

Course Objectives:-

- 1. To impart basic Project Management systems.
- 2. To Understand the Company environment.

Unit 1: JIRA

JIRA – OVERVIEW, JIRA – Installation, JIRA – login, JIRA – Dashboard, JIRA – Issue Creation, Clone An Issue, Create A Subtask, Convert Issue To Subtask, Convert Subtask To Issue, Create Issue Using CSV, Edit An Issue, Email An Issue, Label An Issue, Linking Issues, Move An Issue

Unit 2: Project Management Challenges and Risk Management.

Project Risk Management, Planning Risk Management, Common Sources of Risk in IT Projects, Software configuration management, tool-kits, workbenches, environments, Emerging software engineering trends, collaborative development & test-driven development.

Learning Outcomes:

At the end of the course, the students should be able to:

- 1. The course aims helping students to gain a solid understanding of the crucial and growing role played by project management in all areas of the modern business.
- 2. This course will also enable the students to expand their business communication with the technical terminology necessary for participating and/or running projects internationally.

Reference Books:

- 1. A toolkit for reaping the rewards from all your business projects by Robert Buttrick Prentice Hall / Financial Times, Fourth edition, 2010
- 2. Manifesto for Agile Software Development http://agilemanifesto.org/
- 3. Principles behind the Agile Manifesto http://agilemanifesto.org/principles.html
- 4. Agile Handbook http://agilehandbook.com/agile-handbook.pdf

ADCSE302: (Practical): Agile Foundation-II Lab

(Contact Hrs. 60 Credits: 02)

Learning Objectives:

- 1. To impart basic Project Management systems.
- 2. To Understand the Company environment.

List of Practical's (15)

- 1. Discuss the interface of JIRA.
- 2. Discuss the frameworks of Github.
- 3. Discuss the Kanban using JIRA
- 4. Case study: College website using JIRA framework.
- 5. Case study: Project Management and its Challenges(Project)
- 6. Case study: Project Planning and its Risk Management (Project).
- 7. Case study: Risks in planning hospital management website.
- 8. Case study: Emerging software engineering trends, collaborative development & test-driven development.

Semester IV

CT-IV: ADCST 401: Title: Agile Framework-II

(Contact Hrs: 30 Credits: 2)

Learning Objectives:-

- 1. Optimizing the flow of valuable work.
- 2. Building a Kanban board.
- 3. Using Kanban tools and techniques effectively.
- 4. Using measurement to make decisions.
- 5. Taking a lead on continuous improvement.

Unit 1: Essentials of Kanban and Agile

What Is Kanban? ,What Are The Origins Of Kanban?, Kanban Card Template, Kanban Board Template, What Is A Kanban System - Kanban Development Methodology? Kanban vs Kanban (Kanban versus Agile Kanban),

Unit 2: Framework of Kanban

What Is A Kanban Software and Kanban Board Software? , Tool for Project Management of Kanban, Kanban Certification, Kanban Workflow, Key Metrics To Manage A Kanban Workflow, What Visualize Your Workflow With Kanban , Limit Work In Progress (WIP) With Kanban , Implement Kanban Feedback Loops , Improve Kanban Collaboratively, Develop Kanban Experimentally .

Learning Outcomes:

At the end of the course, the students should be able to:

- 1. The course aims helping students to gain the knowledge of services such as marketing, HR, sales, technical support, or requirements analysis.
- 2. The course aims helping students to gain the knowledge about how to build products such as software applications.

Reference Books:

The following material is recommended for the course:

- 1. A toolkit for reaping the rewards from all your business projects by Robert Buttrick Prentice Hall / Financial Times, Fourth edition, 2010
- 2. Manifesto for Agile Software Development http://agilemanifesto.org/
- 3. Principles behind the Agile Manifesto http://agilemanifesto.org/principles.html
- 4. Agile Handbook http://agilehandbook.com/agile-handbook.pdf

ADCSE402: (Practical): Agile Framework-II Lab

(Contact Hrs. 60 Credits: 02)

Learning Objectives:

- 1. To impart basic Project Management systems.
- 2. To Understand the Company environment.

List of Practical's (15)

- 1. Discuss the interface of JIRA.
- 2. Discuss the frameworks of ---.
- 3. Discuss the Kanban framework
- 4. Case study: College website using Kanban framework.
- 5. Case study: Library management system using Kanban framework.
- 6. Case study: any Company management website using Kanban framework.
- 7. Case study: Any Hospital management website using Kanban framework.
- 8. Case study: On your project

Learning Outcomes:

At the end of the course, the students should be able to:

- 1. The course aims helping students to gain a solid understanding of the crucial and growing role played by project management in all areas of the modern business.
- 2. This course will also enable the students to expand their business communication with the technical terminology necessary for participating and/or running projects internationally.

Reference Books:

The following material is recommended for the course:

- 1. A toolkit for reaping the rewards from all your business projects by Robert Buttrick Prentice Hall / Financial Times, Fourth edition, 2010
- 2. Manifesto for Agile Software Development http://agilemanifesto.org/
- 3. Principles behind the Agile Manifesto http://agilemanifesto.org/principles.html
- 4. Agile Handbook http://agilehandbook.com/agile-handbook.pdf

CP II : ADCSP 202(Project): (Contact Hrs. 30/60, Credits: 1/2)

Every student should take up a project and submit in the report the work he/she has carried out. Project work will be accessed independently at the time of practical examination

BOS Sub-Committee

- 1. Chairman -Dr. More Sharmila S.
- 2. Member Ms Atar Roshani U. -Ms .Shendge G. P.

Expert Committee

- 1. Name of Academic Expert: Prof .Dr Bhavana Narain.
- 2. Name of Industrial Expert: Mr. Asif Hamid Shaikh Software Engineer, Utopia Automation and Control Pvt. Ltd.