

GOVERNMENT POLYTECHNIC, NAGPUR.

(An Autonomous Institute of Govt. of Maharashtra)

COURSE CURRICULUM

PROGRAMME	: DIPLOMA IN CM / IT
LEVEL NAME	: PROFESSIONAL COURSES
COURSE CODE	: CM414E \$
COURSE TITLE	: SOFTWARE PROJECT MANAGEMENT
PREREQUISITE	: NIL
TEACHING SCHEME:	TH: 00; TU: 00; PR: 04 (CLOCK HRs.)
TOTAL CREDITS	: 02(1 TH/TU CREDIT = 1 CLOCK HR., 1 PR CREDIT = 2 CLOCK HR.)
TH. TEE	: NIL
PR. TEE	: 02 HRs (Internal)
PT.	: NIL

❖ RATIONALE:

This course gives the experience about survey and collection of technical information, preparation of Reports and Presentation of Seminars. Students will get the information about current trends and technology in the field of IT.

❖ COURSE OUTCOMES:

After completing this course students will be able to–

1. Manage the selection and initiation of individual projects
2. Conduct project planning activities and execute project effectively
3. Gather the information from available resources.
4. Explore the solutions for the real problems encountered in a real life job
5. Prepare a report
6. Present Seminar.

❖ **COURSE DETAILS:****A. THEORY :**

Units	Specific Learning Outcomes (Cognitive Domain)	Topics and subtopics	Hrs.
NIL			

B. LIST OF PRACTICALS/LABORATORY EXPERIENCES/ASSIGNMENTS:

Practical's	Specific Learning Outcomes (Psychomotor Domain)	Units	Hrs.
1.	Gather information related to Software Project management basics concepts. Conduct a case study of any software system. With synopsis.	Project Management	4
2	Prepare the steps of Life cycle of a project. Prepare rough project task list and plan for software project.		4
3	Conduct a case study for Roles played by the project Manager and various team members in Software project. Distribute the project work according to role of team members.		4
4	Prepare data showing Software Time, Effort and Cost Estimation of given project using various methods.		4
5	Prepare Gantt chart (Task Entry) for project plan of software project with duration and create baseline and milestones.	Project Planning	4
6	Prepare PERT (Project Evaluation & Review Techniques) for project plan of software project with duration.		4
7	Prepare CPM (Critical Path Method) for project plan of software project with duration.		4
8	Prepare Bar Chart for parallel activities of software project		4
9	Prepare list of resource in Software project task. Assigned resources to particular task. Enter respective entry in PERT, CPM and Gantt chart	Scope Management	4
10	Conduct a case Study on Risk management using given software project		4
11	Track the project using recording actual duration or work done in each task of project. Enter data in Tracking Gantt chart wizard		4
12	Conduct a case study on common mistakes made during different phases of a project	Analysis	8
13	Conduct a case study of various projects Management CASE tools and compare their functionalities.		8
Skill Assessment			4
Total			64

❖ **SPECIFICATION TABLE FOR THEORY PAPE** : **NIL**❖ **QUESTION PAPER PROFILE FOR THEORY PAPER** : **NIL**

❖ ASSESSMENT AND EVALUATION SCHEME:

	What		To Whom	Frequency	Max Marks	Min Marks	Evidence Collected	Course Outcomes
Direct Assessment Theory	CA (Continuous Assessment)	Progressive Test (PT)	Students	Two PT (average of two tests will be computed)	--	--	--	--
		Assignments		Continuous	--	--	--	--
	TEE (Term End Examination)	End Exam	Students	End Of the Course	--	--	--	--
				Total	--	--	--	--
Direct Assessment Practical	CA (Continuous Assessment)	Skill Assessment	Students	Continuous	40	--	Rubrics & Assessment Sheets	12,3,4,5,6
		Journal Writing		Continuous	10	--	Journal	1,2,3,4,5,6
				TOTAL	50	20		
	TEE (Term End Examination)	End Exam	Students	End Of the Course	50	20	Rubrics & Practical Answer Sheets	1,2,3,4,5,6
Indirect Assessment	Student Feedback on course		Students	After First Progressive Test	Student Feedback Form			1, 2, 3, 4,5,6
	End Of Course			End Of The Course	Questionnaires			

❖ SCHEME OF PRACTICAL EVALUATION:

S.N.	Description	Max. Marks
1	Writing case studies	10
2	Execution of project	10
3	Prepare report	10
4	Present seminar	10
5	Viva voce	10
	TOTAL	50

❖ MAPPING COURSE OUTCOMES WITH PROGRAM OUTCOMES:

Course Outcomes (COs)	Program Outcomes (POs)										PSOs	
	1	2	3	4	5	6	7	8	9	10	1	2
1	-	3	3	3	-	-	-	3	3	3	-	3
2	-	3	3	3	-	-	-	3	3	3	-	3
3	-	3	3	3	-	-	-	3	3	3	-	3
4	-	3	3	3	-	-	-	3	3	3	-	3
5	-	3	3	3	-	-	-	3	3	3	-	3
6	-	3	3	3	-	-	-	3	3	3	-	3

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

❖ REFERENCE & TEXT BOOKS:

S.N.	Title	Author, Publisher, Edition and Year Of publication	ISBN Number
1.	Software Engineering: A Practitioner's Approach	Roger S. Pressman, 7 th Edition, McGraw Hill, 2009	13:9780073375977
2.	Software Engineering	Ian Somerville, 8 th Edition, Pearson Education, 2006	13:9780321313799

❖ E-REFERENCES:

- <https://www.youtube.com/watch?v=Z6f9ckEElsU> accessed on 1st Sept 2016
- http://nptel.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Soft%20Engg/New_index1.html accessed on 1st Sept 2016
- <http://www.csis.pace.edu/~scharff/cs389/ref/cs389indexref.html> accessed on 1st Sept 2016
- <http://www.letu.edu/people/jaytevis/Software-Engineering/Presentations/Pressman/pressman-presentations.html> accessed on 1st Sept 2016

❖ **LIST OF MAJOR EQUIPMENTS/INSTRUMENTS WITH SPECIFICATION**

1. Computer (Dual CORE and above) with Internet connection.
2. Network printer.
3. Office Suite
4. C compiler

❖ **LIST OF EXPERTS & TEACHERS WHO CONTRIBUTED FOR THIS CURRICULUM:**

S.N.	Name	Designation	Institute / Industry
1.	Dr. Mrs. A R Mahajan	Head, Information Technology	Government Polytechnic, Nagpur.
2.	Shri. S. P. Lambhade	Head, Computer Engineering	Government Polytechnic, Nagpur.
3	Shri. L. D. Vilhekar	Lecturer in Information Technology	Government Polytechnic, Nagpur.
4	Shri. Atul Upadhyay	CEO	Vista Computers , Ram Nagar, Nagpur
5	Shri. N. V. Chaudhari	Asst. Professor (CSE)	DBACEO, Wanadongri, Nagpur
6	Shri. Manoj Jethawa	HOD Computer Science	Shri Datta Meghe Polytechnic, Nagpur

(Member Secretary PBOS)

(Chairman PBOS)