Course Code PCA20G01T Course Nam		SOFTWARE PROJECT MANAGEMENT Catego		egor		G Generic Elective C			Cou	ourse				0	0	3									
Pre-requisite Courses Nil Co-requisite Courses Nil Progressive Courses Nil									I						1000										
Cours	Course Offering Department Computer Applications Data Book / Codes/Standards										Nil														
Cours	e Learni	ng Rational	le _T	he nurnese of l	parning this course is to				La	orni	200				Dro	arom	Loc	rnin	~ O	toon	00 /	DI O	١		
(CLR)				ne purpose or it	earning this course is to,				Le	arnir	ilg				FIO	grain	Lec	1111111	g Ou	lcon	162 (FLU)		
CLR-1	CLR-1: To develop an awareness of the need for project planning and management.								2	3		2	3	4	5	6	7	8	9 1	0 1	1 1	2 13	3 14	15	
CLR-2				V. 1	tion and activity planning.			7	~	1			1												
CLR-3				eople managem					(Bloom)	(%)	Attainment (%)	9	20		_					g	Competence	3	Eligagallell		
CLR-4	: Tol	earn about	projec	t monitoring and	control mechanisms.					nc)	ent	3	3		ning			ing	g ·	arning	E E	6	5		D
CLR-5	i: To I	know about	softwa	are quality mana	gement.				Thinking	Proficiency	ij.		g	g	0	S		Reasoning	Thinking	ea	Ę :	oning	20	Skills	earning
CLR-6	i: To I	Learn Abou	t Proce	ess Models.					Ę	Pro	Atta	3	Thinking	Solving	Re	Skills	بد	Sea	교	(3)		0)	101		ea
fi-									of T	eq	ed	0	드		g	5	No	ij.	.Xe			Keas	N N	Ship	ong
Cours	e Learnii	ng Outcom	es	At the end of th	is course, learners will be	a able to			velo	ect	ect	2.0	Critical Thinking	Problem	Analytical Reas	Research	Team Work	enti	Reflective		Multicultural	<u> </u>	_	g g	2
(CLO)	:			At the end of the	iis course, learners will be	e able to.			le le	Expected	Expected	2	Critical	Po	Ans	Res	Teg	Scientific	Ref	Self-Dire		Etnical	3 5	Lea	Life
CLO-1	CLO-1 : Differentiate between various software process models.				2		80		. H	Н	Н	Н	М	-			4		1 -	-	-				
CLO-2	2: Pre	pare projec	t plann	ing documents					3	85	80		. Н	Н	Н	Н	-	-	М	М	<u>.</u>	- 1	1 -		-
CLO-3	B: Esti	mate the s	oftware	cost for project	S.				3	85	80	L	. Н	Н	Н	Н	-	-	М	M	_	- <i>I</i>	 	-	-
CLO-4	: Per	form effecti	ve acti	vity planning.					3	85	80		. Н	Н	Н	Н	-	-	М	М		- 1	1 -		-
CLO-5	: Pre	pare effecti	ve proj	ect scheduling v	vork product				3	85	80		. Н	Н	Н	Н	-	-	М	М	<u>.</u>	- /	1 -	-	-
CLO-6	CLO-6 : Perform software quality management activities.				3	85	80		. H	Н	Н	Н	-	-	М	M	-	- <i>I</i>	 -	-	-				
D	4					-																			
Dura (ho			9		9			9						9								9			
	SLO-1 B	asics of SP	M: De	finition	Software Effort Estimation	n:	Categories of Ris	sk			С	reating	the	ram	ewor	k		1000					s: Th	e IS)
S-1	S	oftware Pro	niects \	/ersus Other	Problems with Over and	Under												- 20 63	2207						
		Types of Project Estimates			Framework for Dealing with Risl		sk Creating the Framework Sup				Supply Process, Types, Stages														
5.2	SLO-1 Contract Management Basis of Software Estimating Risk Identification Slope State Sta		<u> </u>			Contract Management																			
	SLO-2 Technical Project Management Software Estimating – Techniques Risk Assessment		ıt		Partial Completion Reporting Managing People			•																	
S-3	SLO-1 A	ctivities – F	Plans, N		Expert Judgment		Risk Planning	160		Risk Reporting – Organizing Tean															
0.0	SLO-2 N	lethodologi	es		Cosmic Full Function Poi	nts	Risk Manageme	nt			٧	isualiz	ing P	ogre	ss: G	antt	cha	rt (Jnde	rstan	ding	Beh	avio	ur	

SOFTWARE PROJECT MANAGEMENT

Course Code | PCA20G01T | Course Name

Course

Generic Elective Course

S-4	- 50 m / C m / D / D / D / D / D / D / D / D / D /	Requirement Specification – Management Control	A Procedural Code Oriented Approach-COCOMO: A Parametric Model	Evaluating Risks to the Schedule	Slip chart – Ball Charts	Organizational Behaviour, Motivation
S-5	SLO-1 SLO-2	Overview of Project Planning		Applying the PERT Technique	The Timeline – Cost Monitoring	The Oldham-Hackman Job Characteristics Model
S-6	SLO-1	•	Sequencing and Scheduling	Monte Carlo Simulation – Critical Chain Concepts	Earned Value Analysis	Decision Making, Leadership
S-7	SLO-1	Introduction to Step Wise Project Planning – Programme Management and Project Evaluation:	 Network Planning Models – Formulating A Network Model 	Resource Allocation: Nature of Resources	Prioritizing Monitoring	Dispersed and Virtual Teams, Software Quality – Importance
S-8	SLO-1		Shortening the Project Duration	Identifying Resource Requirements – Scheduling Resources	Getting the Project Back to Target	Defining Software Quality, ISO 9126, Software Quality Measures
			, ,	Creating Critical Paths – Counting the Cost – Cost Schedules –		Product Versus Process Quality Management, External Standards,
S-9	SLO-2	Technologies, Process Models, Software Prototyping, Dynamic Systems Development Method, Managing Iterative Processes	,	Scheduling Sequence.		Quality Plans

Lograina	Bob Hughes, Mike Cotterell, "Software Project	 Walker Royce, "Software Project Management: A Unified Framework", Pearson Education, 2004.
Learning Resources	Management", Fourth Edition, Tata McGraw-Hill, 2011.	Rishabh Anand, "Software Project Management", S. K. Kataria, 2013.
Resources	eq.	3. S. A. Kelkar, "Software Project Management: A Concise Study Paperback", Prentice Hall of India, 2013.

Learning A	earning Assessment										
Level	Bloom's Level		Final Examination (50% weightage)								
	of Thinking	CLA – 1 (10%)		CLA – 2 (10%)		CLA -	3 (20%)	CLA - 4 (1	10%) #		200 - 200 - 100 -
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Level 1	Remember	40%	-	30%	-	30%	· -	30%	-	30%	
Level I	Understand	40 %									
Level 2	Apply	40%	0*0	40%	-	40%	-	40%	-	40%	-
Level 2	Analyze										
Level 3	Evaluate	20%	10000	30%	2	30%	9	30%	1823	30%	
LEVEI 3	Create	20%	-	30%	1.5%	30 70	√2 	30 /6	-	30 /0	-
	Total	100 %		100 %		100	0 %	100 9	%	100 %	

CLA - 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers										
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts								
Mr.G.Muruganandam, Group Project Manager, HCL Technologies, Chennai	Dr. S. Gopinathan, Professor, University of Madras, Chennai	Mr.D.B.Shanmugam, SRMIST								
Mr.M. Hemachandar, Tech Lead, Wipro Limited, Chennai										