1 702CS702			L	T	P	C
		SOFTWARE PROJECT MANAGEMENT				
			3	0	0	3
		(Common to B.E / B.Tech – CSE, IT & ECE)				
PREREQUISIT	E:					
		Software Engineering				
C 01: 4:						
Course Objectiv			1			
-		rovide a strong foundation on the concept of software project dev	elopn	nent		
		earn the concepts on project management and evaluation.				
UNIT I		nderstand the principles of management and team organization. JECT EVALUATION AND PROJECT LIFE CYCLE			0.11.	
			- f		9 H	ours
		projects – Project management vs. product management – stages	oi pro	ject		
		project life cycle - Managerial issues.			ΛΠ	
Unit II		VITY PLANNING AND RISK MANAGEMENT		1	9 H	
		ntifying project – Developing project character – Identifying				
		Gathering requirements – Requirements types – Project scope				
		SS) – Manpower planning – Quality planning – Time and C	ost es	umai	es – .	KISK
Unit III		Procurements for the project. ESTIMATION TECHNIQUES			9 H	
		n techniques: KLOC/SLOC estimation, expert opinion, top-down	and k)		Jurs
		estimates, object point estimates, Delphi technique – Project test				
		- Software quality control (SQC) – cost of quality – Software qu				71
CMMi model	(SQA)	- Software quanty control (SQC) – cost of quanty – Software qu	amy r	victiic	'2 – SI	21-
Unit IV	DICK	MANAGEMENT AND CONTROL			9 H	allec
						Jui 5
Understanding 11		k managamant process - rick managamant planning - identificat	ion of	rielze	ric	r
		k management process – risk management planning – identificat				k
analysis – risk-re	sponse p	lanning - Monitoring the risks - Role of project manager - Lead	lership	style	es –	
analysis – risk-re recruitment proce	sponse p ess – tear	blanning – Monitoring the risks – Role of project manager – Lead m development stages – Conflict management in Project environ	lership	style	es –	
analysis – risk-re recruitment proce firing issues in so	sponse p ess – tear oftware p	planning – Monitoring the risks – Role of project manager – Lead on development stages – Conflict management in Project environ project management – Communication process	lership	style	es – ng an	d
analysis – risk-re recruitment proce firing issues in so Unit V	sponse pess – tear oftware p	planning – Monitoring the risks – Role of project manager – Lead on development stages – Conflict management in Project environ project management – Communication process NCED TOPICS	lership ment -	style - Hiri	es – ng an 9 He	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin	sponse pess – tear oftware personal ADVA	planning – Monitoring the risks – Role of project manager – Lead m development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule	lership ment -	style - Hiri	es – ng an 9 Ho ent –	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre	sponse p ess – tear oftware p ADVA g – Activassion tea	planning – Monitoring the risks – Role of project manager – Lead in development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to	e deve	style - Hiri	es – ng an 9 Ho ent –	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre	sponse p ess – tear oftware p ADVA g – Activassion tea	clanning – Monitoring the risks – Role of project manager – Lead median development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers.	e deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program-	sponse p ess – tear oftware p ADVA g – Acti ssion tec Portfolio	planning – Monitoring the risks – Role of project manager – Lead in development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to	e deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent –	d ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre	sponse p ess – tear oftware p ADVA g – Acti ession tec Portfolio	planning – Monitoring the risks – Role of project manager – Lead medevelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot	e deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program-	sponse p ess – tean oftware p ADVA g – Activession tec Portfolio g: 1.In	planning – Monitoring the risks – Role of project manager – Lead of development stages – Conflict management in Project environt project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Total	e deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program-	sponse p ess – tean oftware p ADVA g – Acti ssion tec Portfolio g: 1.In 2.C	planning – Monitoring the risks – Role of project manager – Lead medevelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot	e deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program-	sponse p ess – tean oftware p ADVA g – Acti ssion tec Portfolio g: 1.In 2.C	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers Tot Classification of Software Metrics	deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading	sponse p ess – tean oftware p ADVA g – Activession tec Portfolic g: 1.In 2.C es: After co	channing – Monitoring the risks – Role of project manager – Leadern development stages – Conflict management in Project environt project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to	deve	o style - Hiri - Hiri lopme Progra	es – ng an 9 Ho ent – am -	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome	sponse p ess – tear oftware p ADVA g – Activession tec Portfolio g: 1.In 2.C es: After co Identify	planning – Monitoring the risks – Role of project manager – Lead of development stages – Conflict management in Project environt project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to and build an appropriate process model for a given project	deve	o style - Hiri - Hiri lopme Progra	es — ng an 9 Ho ent — am -	d
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading	sponse p ess – tean oftware p ADVA g – Activession tean Portfolio 1.In 2.Ces: After co Identify Analyse	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to and build an appropriate process model for a given project to the principles at various phases of software development	e deve ols –]	o style - Hiri lopmo Progra	9 Hoent – am -	Durs
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome	sponse p ess – tean oftware p ADVA g – Activession tec Portfolio g: 1.In 2.C es: After co Identify Analyso Transla	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers Tot Inport of the internet on project Management Classification of Software Metrics Import of the course, Student will be able to and build an appropriate process model for a given project the the principles at various phases of software development te specifications into design, and identify the components to build	deve deve ols – l	o style - Hiri lopmo Progra	9 Hoent – am -	Durs
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome	sponse p ess – tean oftware p ADVA g – Activession tec Portfolio g: 1.In 2.C es: After co Identify Analyse Transla a given	channing – Monitoring the risks – Role of project manager – Leader development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Tot Classification of Software Metrics completion of the course, Student will be able to project management careers and build an appropriate process model for a given project to the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo	deve deve ols – l	o style - Hiri -	es – ng an 9 He ent – am -	ours ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome	sponse p ess – tean oftware p ADVA g – Activession technology 1.In 2.C es: After condition Identify Analysis Transla a given Define	planning – Monitoring the risks – Role of project manager – Lead in development stages – Conflict management in Project environt project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to and build an appropriate process model for a given project the the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Plan	deve deve ols – l	o style - Hiri -	es – ng an 9 He ent – am -	ours ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3	sponse p ess – tean oftware p ADVA g – Activession technology 1.In 2.Community Analyst Transla a given Define during	planning – Monitoring the risks – Role of project manager – Lead in development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to and build an appropriate process model for a given project the the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Platthe development of the software	d the logy	o style Hiri Hopmo Progra	es – ng an 9 Ho ent – am - 45 Ho ecture	ours ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3	sponse p ess – tean oftware p ADVA g – Activation tean Portfolio g: 1.In 2.C es: After con Identify Analyson Transla a given Define during to	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Tot Inport of the internet on project Management Classification of Software Metrics Import of the course, Student will be able to proper and build an appropriate process model for a given project to the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Platthe development of the software tand the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the sof	d the logy	o style Hiri Hopmo Progra	es – ng an 9 Ho ent – am - 45 Ho ecture	ours ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3 CO4 CO5	sponse p ess – tean oftware p ADVA g – Activation tean Portfolio g: 1.In 2.C es: After con Identify Analyson Transla a given Define during to	planning – Monitoring the risks – Role of project manager – Lead in development stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics completion of the course, Student will be able to and build an appropriate process model for a given project the the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Platthe development of the software	d the logy	o style Hiri Hopmo Progra	es – ng an 9 Ho ent – am - 45 Ho ecture	ours ours
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3 CO4 CO5 References:	sponse p ess – tean oftware p ADVA g – Activession tec Portfolic g: 1.In 2.C es: After cc Identify Analyse Transla a given Define during Unders resourc	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Tot Tot Total chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Total chain method – Software method of the course, Student will be able to management of the software engineering method of the specifications into design, and identify the components to built problem, all using an appropriate software engineering method of a Project Management Plan and tabulate appropriate Testing Platted development of the software tand the software project estimation models and estimate the work estimated and the schedule for a software project	d the logy as at contact the development -	o style Hiri lopmo Progra archit	es – ng an 9 He ent – am - 45 He ecture ent lev	ours ours for els
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3 CO4 CO5 References: 1. Bob Hughes.	sponse p ess – tean oftware p ADVA g – Activession technology 1.In 2.Com ess: After com Identify Analysom Transla a given Define during to Unders resource	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Schedule chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Tot Inport of the internet on project Management Classification of Software Metrics Import of the course, Student will be able to proper and build an appropriate process model for a given project to the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Platthe development of the software tand the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the software project estimation models and estimate the work and the sof	d the logy as at contact the development -	o style Hiri lopmo Progra archit	es – ng an 9 He ent – am - 45 He ecture ent lev	ours ours for
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3 CO4 CO5 References: 1. Bob Hughes, Hill, New Delhi,	sponse p ess – tean oftware p ADVA g – Activession tece Portfolio g: 1.In 2.C es: After con Identify Analyson Transla a given Define during to Unders resourc Mike C 2012.	planning – Monitoring the risks – Role of project manager – Leader development stages – Conflict management in Project environ project management – Communication process NCED TOPICS Wity diagrams – Network diagrams – PERT & CPM for Schedule Chnique – Critical chain method – Software project scheduling to be relationships - Project portfolio – Project Management Careers. Tot Inport of the internet on project Management Classification of Software Metrics Import of the course, Student will be able to and build an appropriate process model for a given project the the principles at various phases of software development the specifications into design, and identify the components to built problem, all using an appropriate software engineering methodo a Project Management Plan and tabulate appropriate Testing Platthe development of the software that the software project estimation models and estimate the worker required and the schedule for a software project otterell and Rajib Mall: Software Project Management – Fifth Education of the Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Management – Fifth Education of Rajib Mall: Software Project Ma	d the logy ns at coldition,	o style Hiri lopmo Progra archit	es – ng an 9 He ent – am - 45 He ecture	ours ours for els
analysis – risk-re recruitment proce firing issues in so Unit V Project schedulin Schedule compre Project-Program- Further Reading Course Outcome CO1 CO2 CO3 CO4 CO5 References: 1. Bob Hughes, Hill, New Delhi, 2. Robert K. Wys	sponse p ess – tean oftware p ADVA g – Activation technology 1. In 2. Ces: After condition Analyse Transla a given Define during to Unders resourc Mike C 2012. socki "Ef	planning – Monitoring the risks – Role of project manager – Lead medvelopment stages – Conflict management in Project environ project management – Communication process NCED TOPICS vity diagrams – Network diagrams – PERT & CPM for Scheduler Chnique – Critical chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Tot Tot Tot Total chain method – Software project scheduling to prelationships - Project portfolio – Project Management Careers. Total chain method – Software method of the course, Student will be able to management of the software engineering method of the specifications into design, and identify the components to built problem, all using an appropriate software engineering method of a Project Management Plan and tabulate appropriate Testing Platted development of the software tand the software project estimation models and estimate the work estimated and the schedule for a software project	d the logy ns at collition,	o style Hiri lopmo Progra archit	es – ng an 9 He ent – am - 45 He ecture	Durs c for reels

- 4. Sanjay Mohapatra, "Software Project Management", Cengage Learning, 2011.
- 5. http://nptel.ac.in/courses/106101061/