SCHEME OFCOURSE WORK

CourseDetails:

CourseTitle	:OBJECTORIENTEDANALYSIS&DESIGN		
CourseCode	:15CT1125	L T P C	:3 0 0 3
Program:	: B.Tech.		
Specialization:	: ComputerScience&Engineering,InformationTechnology		
Semester	: VI		
Prerequisites	:SoftwareEngineering,ObjectOrientedProgrammingLanguage		
Coursestowhichitis a prerequisite			

CourseOutcomes(COs):

1	ExplainbasicBuildingBlocks inUML.
2	Createclass andobjectdiagrams in UML
3	Developinteraction, usecase,activitydiagrams
4	Designcomponentand deploymentdiagrams.
5	ApplyObjectOrientedDesignconcepts.

Program Outcomes(POs):

AgraduateofInformationTechnologywillbeableto

1	Abilityto applythe knowledge ofmathematics,science,engineeringfundamentalsandprinciplesofInformation Technologytosolveproblemsin differentdomains.
2	Abilitytoanalyzeaproblem,identifyandformulatethecomputingrequirementsappropriatetoitssolution.
3	Abilitytodesign&developsoftwareapplicationsthatmeetthedesiredspecificationswithintherealistic constraintsto servethe needsofthesociety.
4	Abilityto design andconductexperiments,aswellas to analyze andinterpret data
5	Abilityto useappropriatetechniques& toolstosolveengineeringproblems.
6	Abilityto applytheknowledgetoanalyze and understandsocietal,health,safety,legal, and culturalissuesrelevanttothe InformationTechnologypractices.
7	Abilityto analyze thelocaland globalimpactofcomputing onindividualaswellas on society.
8	Abilitytodemonstrateprofessionalethicalpracticesandsocialresponsibilitiesinglobalandsocietalcontexts.
9	Abilitytofunctioneffectivelyas anindividual, andas a memberor leaderindiverse and multidisciplinaryTeams.
10	Abilityto communicateeffectivelywiththe engineeringcommunity andwithsocietyatlarge
11	Abilitytounderstandengineeringandmanagementprinciplesandapplythesetoone’sownwork,asamember and leaderin a team, tomanageprojects.
12	Abilityto recognize the needforupdatingtheknowledge inthechosenfieldandimbibinglearningtolearnskills.

CourseOutcomeversusProgramOutcomes:

Courseo utcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2		2										
CO2		2	2	2	2				2	2	2		2		
CO3		3	3		3		2		3	3	3		2		
CO4		3	3		3				3	3	3	22 2	2		
CO5		3	3		3		2		3	3	3	3			

S-Stronglycorrelated,M-Moderatelycorrelated,Blank-Nocorrelation

AssessmentMethods:	Assignment / Quiz/ Mid-Test / End Exam

Teaching-Learningand Evaluation

Week	TOPIC/ CONTENTS	Course Outcomes	Samplequestions	TEACHING-LEARNINGS TRATEGY	Assessment Method&Sc hedule
1	Anoverviewofobjectorientedsystemsdevelopment.	CO-1	1.Whatisanobject?	Lecture/Discussion Demonstration	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
2	TheImportanceofModeling, PrinciplesofModeling,ObjectOrientedModeling	CO-1	1.Whataretheprinciplesof modeling?	Lecture/Discussion	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
3	AnoverviewoftheUML,A ConceptualModeloftheUML,Architecture,SoftwareDevelopmentLifeCycle.	CO-1	1Whatistheimportanceof themodeling?	Lecture/Discussion	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
4	Classes,Relationships,Common Mechanisms,anddiagrams,	CO-2	1.What arecommon Mechanisms?	Lecture/Discussion Problemsolving	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
5	Classdiagrams	CO-2	1.Define a classdiagram	Lecture/Discussion Problemsolving	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
6	Advancedclasses,advanced relationships,Interfaces,	CO-2	1.Defineadvanced relationships	Lecture/Discussion	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
7	TypesandRoles, Packages,ObjectDiagrams	CO-2	1.DefineTypesand Roles	Lecture/Discussion	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1

8	Interactions,Interactiondiagrams, Usecases,Usecasediagrams,Activity Diagrams	CO-3	1.DefineInteraction and use casediagram	Lecture/Discussion	Quiz(Week-7) Assignment (Week-6toWeek-8) Mid-Test1
9	Mid-Test1				
10	Events andsignals,statemachines	CO-3	1.Definestatechart diagrams	Lecture/Discussion Problemsolving	Quiz (Week-17) Assignment(Week15toWeek-17)
11	processesandThreads,timeand space,statechartdiagrams	CO-3	1.Defineprocesses and threads	Lecture/Discussion	Quiz (Week-17) Assignment(Week15toWeek-17)
12	Component,Deployment	CO-4	1.Whatis acomponent?	Lecture/Discussion	Quiz (Week-17) Assignment(Week15toWeek-17)
13	Componentdiagramsand Deploymentdiagrams	CO-4	1.Draw thesymbolsof component anddeployment	Lecture/Discussion	Quiz (Week17)Assignment (Week15toWeek-
14	DesignPatterns	CO-4	1.DefinePatterns	Lecture/Discussion	Quiz (Week-17) Assignment(Week15toWeek-17)
15	SystemsandModels	CO-4	1.What aresystemsand models?	Lecture/Discussion	Quiz (Week-17) Assignment(Week15toWeek-17)
16	BankATMApplication	CO-5	1.Drawusecasediagram for ATMapplication	Lecture/Discussion	Quiz (Week-17) Assignment(Week15toWeek-17)
17	RailwayReservationSystem	CO-5	1.Draw classdiagram for RailwayReservation System	Lecture/Discussion	Quiz (Week-17) Assignment (Week15toWeek-17)
18	Mid-Test2				
19/20	ENDEXAM				