Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur

Department of Information Technology

Lesson Plans

Discipline:	B.Tech (IT)
Semester:	7 th
Subject:	Compiler Design(IT-401 N)
Lesson Plan Duration:	15 weeks(July, 2019 to Dec., 2019)
Work Load (Lecture) per week (In hours):	Lecture-4

Week	Lecture	Topic
	1.	Introduction: The structure of a compiler
2.		The role of the lexical analyzer
	3.	Top down Parsing – Recursive Descent Parsing
	4.	Revision
1.		
2.	5.	Predictive Parser Implementation
	6.	Bottom-up Parsing
	7.	Operator Precedence Parsing
	8.	Revision
3.	9.	Precedence Matrix and Precedence functions
	10.	Boolean matrices
	11.	Shift Reduce Parser
	12.	Revision
4.	13.	LR Parsers – SLR parsers
	14.	Canonical Parsers- CLR Parser
	15.	Assignmnet-1
	16.	Class Test-1st unit
5.	17.	Introduction to syntax-directed translation scheme,
	18.	syntax-directed translation scheme Of Desk calculator grammar
	19.	Syntax Directed translation scheme of Postfix Notation
	20.	Revision
6.	21.	Intermediate Languages – Three address code, its types
	22.	Implementation of Three address code
	23.	Declarations – Procedure, Scope information & Records, Back patching
	24.	Sessional Test-1
7.	25.	Syntax Directed translation scheme of Assignment statements
	26.	Syntax Directed translation scheme of Boolean expressions
	27.	Symbol Tables Data structures for symbol tables
	28.	Assignmnet-2
8.	29.	Storage allocation Strategies – static, stack and heap Allocation
	30.	Run time storage administration
	31.	Implementation of a simple stack allocation scheme
	32.	Revision

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9.	33.	Implementation of Block structured languages	
	34.	Error Detection and recovery method	
	35.	Error: Lexical phase errors	
	36.	Revision	
10.	37.	syntactic phase error	
	38.	Semantic error	
	39.	Introduction: Principle sources of Optimization	
	40.	Revision	
	41.	Loop Optimization method Basic blocks	
11.	42.	flow graphs	
	43.	Optimization of basic blocks	
	44.	Assignmnet-3	
12.	45.	Loops in flow graphs, Next use information	
	46.	DAG representation of basic blocks	
	47.	Global data flow analysis	
	48.	Sessional Test-2	
13.	49.	Access to non-local names, parameter passing	
	50.	A simple code generator	
	51.	Issues in the design of a code generator	
	52.	Revision	
14.	53.	The target machine	
	54.	Code generator algorithm with examples	
	55.	Discussion on code generation issues	
	56.	Assignmnet-4	
15.	57.	Runtime environment issues	
	58.	Peephole Optimization	
	59.	Revision	
	60.	Sessional Test-3	
			

Discipline:		B.Tech (IT)
-		7 th
Value		Artificial Intelligence (IT-403N)
Lesson Plan Duration:		15 weeks (July, 2019 to Dec., 2019)
Work Load (Lecture) per v	week (In hours):	Lecture-4
Week	Lecture	Topic
	1.	Introduction –foundation and history of Al
	2.	Classical, Romantic and Modern period
	3.	Applications of Al
1.	4.	Production System
2.	5.	Production rules
	6.	the working memory
	7.	Recognize-act cycle
	8.	conflict resolution strategies
3.	9.	refractoriness
	10.	Recency
	11.	specificity
	12.	alternative approach for conflict
		resolution
4.	13.	Architecture of production system
	14.	Types of Production systems
	15.	conclusion
	16.	Prepositional Logic
5.	17.	Proposition, tautologies
	18.	Theorem proving in prepositional logic
	19.	Semantic method of Theorem proving
	20.	forward chaining
6.	21.	backward chaining
	22.	standard theorems in prepositional logic
	23.	method of substitution
	24.	theorem proving using Wang's algorithm, conclusion
7.	25.	Predicate Logic : - Alphabet of First order logic (FOL)
	26.	predicate, well formed formula
	27.	clause form, algorithm for writing
		sentence into clause form
	28.	inflict of predicates
8.	29.	unification algorithm, resolution
	30.	Robinson's inference rule, conclusion
	31.	Logic Programming and Prolog: - Logic program
	32.	Horn clause
	32.	HUIII Ciduse

9.	33.	program for scene interpretation
	34.	unification of goals, definite perform clause
	35.	SLD resolution, SLD tree, controlling back tracking
	36.	common use of cut
10.	37.	Implementation of backtracking using stack
	38.	risk of using cuts
	39.	fail predicate, application of cut-fail combination
	40.	replace cut-fail by not, conclusion.
11.	41.	Default & Non monotonic reasoning: - Axiomatic theory
	42.	non-atomic reasoning using NML-I
	43.	problems with NML-I
	44.	reasoning with NML-II
12.	45.	truth maintenance system with
		example, conclusion
	46.	Imprecision & Uncertainty
	46. 47.	
		Imprecision & Uncertainty Definition, Probabilistic technicians,
13.	47.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning
13.	47. 48.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning certainty factor based reasoning
13.	47. 48. 49.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning certainty factor based reasoning conditional probability
13.	47. 48. 49. 50.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning certainty factor based reasoning conditional probability Baye's Theorem and its limitations
13.	47. 48. 49. 50. 51.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning certainty factor based reasoning conditional probability Baye's Theorem and its limitations Bayesian belief network
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	47. 48. 49. 50. 51. 52. 53.	Imprecision & Uncertainty Definition, Probabilistic technicians, Fuzzy reasoning certainty factor based reasoning conditional probability Baye's Theorem and its limitations Bayesian belief network propagation of belief Dampster-Shafer theory of uncertainty management
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Discipline:			B.Tech (IT)	
Semester:			7 th	
Subject:			Advanced Computer Networks (IT-415 N)	
Lesson Plan	Lesson Plan Duration:		15 weeks(July, 2019 to Dec., 2019)	
Work Load	(Lecture) per w	eek (In hours):	Lecture-4	
Week	Lecture	Topic		
	1.	Introduction: Ov	verview of	
	2.	computer netwo	orks,	
	3.	seven-layer arch	nitecture,	
1.	4.	TCP/IP suite of p	protocols etc.	
2.	5.	MAC protocols f	for high-speed	
	6.	LANs, MANs and	d wireless LANs.(For	
	7.	example, FDDI,		
	8.	DQDB,		
3.	9.	HIPPI,		
	10.	Gigabit Ethernet		
	11.	Wireless Ethern	et etc.)	
	12.	Fast access tech	Fast access technologies (For	
4.	13.	example: ADSL,		
14.		Cable Modem etc.)		
	15.	Assignment/Class Test		
	16.	Overview of IPv6		
5.	17.	IPv6 & TCP/IP stack IPv6 protocol architecture		
	18.			
	19.	IPv6 address basics, address notation, unicast address, multicast address		
	20.	IPv6 headers		
6.	21.	Routing table problem, static & automatic address configuration,		
	22.	_	ry, stateless address auto configuration	
	23.	· ·	ncepts of IPv4/IPv6	
	24.	Assignment/Class Test		
7.	25.	Mobility in networks, Mobile IP		
	26.	•	issues in mobile IP. IP Multicasting	
	27. 28.	Multicast protocols		
8.	28.	session discovery	address assignments	
٥.	30.		rat various layers. Secure-HTTP	
	31.	SSL	actanous layers, secure 11111	
	32.	ESP		
9.	33.	Authentication he	eader,	
	34.	Key distribution	·	
	35.		s, digital certificates	
	36.	Revision		
10.	37.	Assignment/Class Test		

	38.	Wireless Applications Protocols
	39.	applications environment,
	40.	wireless application protocol client software,
	41.	do
11.	42.	wireless application protocol gateways,
	43.	do
	44.	implementing enterprise wireless application protocol strategy
12.	45.	do
	46.	security issues in Wireless LAN.
	47.	Wireless network management,
	48.	do
13.	49.	GPRS
	50.	VOIP services.
	51.	Network Management: Introduction, LAN
	52.	do
14.	53.	SNMP
	54.	CMIP
	55.	Issues in the management of large networks
	56.	do
15.	57.	Multicast: IGMP,
	58.	PIM,
	59.	DVMRP
	60.	Assignment/Class Test

Discipline:		IT
Semester:		7th
Subject:		Software Project Management (IT-423 N)
Lesson Plan Duration:		15 weeks (July, 2019 to Dec., 2019)
Work Load (Lecture) per v	week (In hours):	Lectures-04
Week	Lecture	Торіс
	1.	Introduction Evolution of software
		economics
	2.	do
1	3.	Improving software economics
1.	4.	do
2.	5.	reducing product size
	6.	do
	7.	software processes
	8.	do
3.	9.	Software environments
	10.	do
	11.	team effectiveness
	12.	do
4.	13.	automation through Software environments
	14.	do
	15.	Principles of modem software
		management
	16.	Framework
5.	17.	Life cycle phases
	18.	do
	19.	inception
	20.	elaboration
6.	21.	construction the and training phase
	22.	Artifacts the process artifact of sets
	23.	management artifacts
	24.	engineering artifacts,
7.	25.	pragmatics artifacts
	26.	Model software architectures based
	27.	do
	28.	Workflows of the process
8.	29.	do
	30.	Checkpoints of the process
	31.	Software Management Disciplines
	32.	Iterative process planning
9.	33.	do
	34.	Project organizations and responsibilities
	35. 36.	do Brosses gutamation
40		Process automation
10.	37.	Project control and process

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		instrumentation
	38.	core metrics
	39.	management indicators
	40.	do
	41.	life cycle expectations
11.	42.	do
	43.	Process instrumentation
	44.	Process discriminates
12.	45.	do
	46.	framework for Management and control
	47.	do
	48.	Collection of tracking
13.	49.	do
	50.	Change control
	51.	Software Configuration Management
	52.	do
14.	53.	Managing contracts
	54.	Contract Management data Project
		termination
	55.	do
	56.	Visualizing progress
15.	57.	do
	58.	Cost monitoring
	59.	Earned Value Analysis
	60.	Project

L2 B.Tech IT- 7th Semester Development L3 B.Tech IT- 7th Semester Classification of Entrepreneurs 2nd L4 B.Tech IT- 7th Semester Types of Entrepreneurs L5 B.Tech IT- 7th Semester Types of Entrepreneurs L6 B.Tech IT- 7th Semester Types of Entrepreneurship L6 B.Tech IT- 7th Semester Entrepreneurial Competencies 7th L7 B.Tech IT- 7th Semester Factors affecting Entrepreneurial Growt (economic & Non Economic) L8 B.Tech IT- 7th Semester EDP Programms L9 B.Tech IT- 7th Semester EDP Programms L10 B.Tech IT- 7th Semester Entrepreneurial Training L11 B.Tech IT- 7th Semester Entrepreneurial Training L12 B.Tech IT- 7th Semester Entrepreneurs vs. entrepreneur L12 B.Tech IT- 7th Semester Entrepreneurs vs. entrepreneurship L14 B.Tech IT- 7th Semester Entrepreneurs vs. entrepreneurship L15 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification E17 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Project Finalization L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization B.Tech IT- 7th Semester Project Finalization B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Source of Information Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI			Lesson	Plan
Subject Code : IT-405N Subject	Discipli	ine:	IT	
Subject: Fundamentals of Entrepreneurship 15 Weeks	Semester:		5 th	
Lesson Plan Duration: Work Load: Lecture-4	Subject	t Code :	IT-405N	
Duration: Work Load: Lecture-4 Week Day Lecture Day Class Topic/Chapter Covered 1st L1 B.Tech IT- 7th Semester Concepts & Definitions of Entrepreneurs L2 B.Tech IT- 7th Semester Entrepreneurship & Economic Development L3 B.Tech IT- 7th Semester Classification of Entrepreneurs L5 B.Tech IT- 7th Semester Types of Entrepreneurship L6 B.Tech IT- 7th Semester Entrepreneurial Competencies 7th L7 B.Tech IT- 7th Semester Entrepreneurial Competencies 7th L7 B.Tech IT- 7th Semester EDP Programms L9 B.Tech IT- 7th Semester EDP Programms L9 B.Tech IT- 7th Semester Entrepreneurial Training L11 B.Tech IT- 7th Semester Entrepreneurial Training L12 B.Tech IT- 7th Semester Entrepreneuris of an Entrepreneur 5th L13 B.Tech IT- 7th Semester Entrepreneuris of an Entrepreneurship L14 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification L15 B.Tech IT- 7th Sem	Subject	:	Fundamentals of Entrepren	eurship
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L12 B.Tech IT- 7th Semester Entrepreneurs vs. entrepreneurship L14 B.Tech IT- 7th Semester Entrepreneurship vs enterprise L15 B.Tech IT- 7th Semester Entrepreneurship vs enterprise L16 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification Entrepreneurial Opportunity Search & Identification L17 B.Tech IT- 7th Semester Criteria to Select a Product L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI	4 th	L10	B.Tech IT- 7th Semester	Entrepreneurial Training
L13 B.Tech IT- 7th Semester Entrepreneurs vs. entrepreneurship		L11	B.Tech IT- 7th Semester	Traits & Qualities of an Entrepreneur
L14 B.Tech IT- 7th Semester Entrepreneurship vs enterprise L15 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification 6th L16 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification L17 B.Tech IT- 7th Semester Criteria to Select a Product L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L12	B.Tech IT- 7th Semester	Manager vs. Entrepreneurs
L15 B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification B.Tech IT- 7th Semester Entrepreneurial Opportunity Search & Identification L17 B.Tech IT- 7th Semester Criteria to Select a Product L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI	5 th	L13	B.Tech IT- 7th Semester	Entrepreneurs vs. entrepreneurship
Identification Iden		L14	B.Tech IT- 7th Semester	Entrepreneurship vs enterprise
L17 B.Tech IT- 7th Semester Criteria to Select a Product L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L15	B.Tech IT- 7th Semester	
L18 B.Tech IT- 7th Semester Conducting Feasibility Studies 7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI	6th	L16	B.Tech IT- 7th Semester	
7th L19 B.Tech IT- 7th Semester Conducting Feasibility Studies L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L17	B.Tech IT- 7th Semester	Criteria to Select a Product
L20 B.Tech IT- 7th Semester Project Finalization L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L18	B.Tech IT- 7th Semester	Conducting Feasibility Studies
L21 B.Tech IT- 7th Semester Project Finalization 8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI	7 th	L19	B.Tech IT- 7th Semester	Conducting Feasibility Studies
8th L2 B.Tech IT- 7th Semester Source of Information L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L20	B.Tech IT- 7th Semester	Project Finalization
L22 B.Tech IT- 7th Semester Definitions of Small Scale, , Objective, Scope, L23 B.Tech IT- 7th Semester Rationale of SSI		L21	B.Tech IT- 7th Semester	Project Finalization
Scope, L23 B.Tech IT- 7th Semester Rationale of SSI	8 th	L2	B.Tech IT- 7th Semester	Source of Information
		L22	B.Tech IT- 7th Semester	
- th		L23	B.Tech IT- 7th Semester	Rationale of SSI
9th L24 B.Tech IT- 7th Semester Role of SSI in Economic Development in India	9 th	L24	B.Tech IT- 7th Semester	Role of SSI in Economic Development in India
L25 B.Tech IT- 7th Semester SSI Registration		L25	B.Tech IT- 7th Semester	SSI Registration
L26 B.Tech IT- 7th Semester NOC from Pollution Board		L26	B.Tech IT- 7th Semester	NOC from Pollution Board
10 th L27 B.Tech IT- 7th Semester Machinery & Equipment Selection	10 th	L27	B.Tech IT- 7th Semester	Machinery & Equipment Selection
L28 B.Tech IT- 7th Semester Project Report Preparation		L28	B.Tech IT- 7th Semester	Project Report Preparation

	L29	B.Tech IT- 7th Semester	Project Report Preparation
11 th	L30	B.Tech IT- 7th Semester	Specimen of Project Report
	L31	B.Tech IT- 7th Semester	Planning & Scheduling using Networking Techniques of PERT/CPM
	L32	B.Tech IT- 7th Semester	Planning & Scheduling using Networking Techniques of PERT/CPM
12 th	L33	B.Tech IT- 7th Semester	Methods of Project Appraisal
	L34	B.Tech IT- 7th Semester	Methods of Project Appraisal
	L35	B.Tech IT- 7th Semester	Director of Industries DIC, SIDO, SIDBI, SIDC, SISI, NSIC, NISBUD, State financial Corporation SFC
13 th	L36	B.Tech IT- 7th Semester	Director of Industries DIC, SIDO, SIDBI, SIDC, SISI, NSIC, NISBUD, State financial Corporation SFC
	L37 Add On's	B.Tech IT- 7th Semester	Business Objectives
	L38 Add On's	B.Tech IT- 7th Semester	Marketing Management
14 th	L39 Add On's	B.Tech IT- 7th Semester	Production Management
	L40 Add On's	B.Tech IT- 7th Semester	Finance Management
	L41 Add On's	B.Tech IT- 7th Semester	Business Environment
15 th	L42	B.Tech IT- 7th Semester	Human Resource Management
	L43	B.Tech IT- 7th Semester	Export Marketing
	L44	B.Tech IT- 7th Semester	Case Study
16 th	L45	B.Tech IT- 7th Semester	Case Study
	L46	B.Tech IT- 7th Semester	Business Plan Writing
	L47	B.Tech IT- 7th Semester	Final Submission of Business Plan
	L48	B.Tech IT- 7th Semester	Revision Unit –I
	L49	B.Tech IT- 7th Semester	Revision Unit - II
	L50	B.Tech IT- 7th Semester	Revision Unit – III
	L51	B.Tech IT- 7th Semester	Revision Unit – IV

Discipline		B.Tech-IT	
Semester		7 th Sem	
Subject		Server-side Programing (IT-407 N)	
Lesson Plan Duration		15 weeks(July, 2019 to Dec., 2019)	
Workload		Practical-3	
Week	Practical		
	Practical day	Topic	
1.	1	Create a Subroutine with arguments passing & call the subroutine for specific no. of time.	
2.	2	Write a program in ASP which define an object & then display the properties of object with method.	
3.	3	Write a program in ASP to display present day, month & date. Also display digital clock.	
4.	4	Write a program in ASP which will check that a specific file, folder & drive exists or not. Also return the extension of file. Then use the read & write properties on a file using text-stream object.	
5.	5	Send information to the user after he submit the form using GET & POST method & implement from validation.	
6.	6	Write a program in ASP that has a form taking the user's name as input. Store this name in a permanent cookie & whenever the page is opened again, then value of the name field should be attached with the cookie's content.	
7.	7	Viva- voce	
8.	8	Use ad-rotator to change advertisements on client side request.	
9.	9	Create a session dictionary using object tag. In session-on start add keys for time, user agent, remote I.P. & add appropriate values. Create a simple page to display the values.	
10.	10	Implement session tracking using user authentication.	
11.	11	Write a program to delete all cookies of your web site that has created on the client's computer.	
12.	12	Write a program is ASP to check the capabilities of the browser using browser capability component.	

13.	13	Using data base to store & retrieves values input by a user showing them & make updating & add new records to existing
		database.
14.	14	Create two ASP pages, a form creation web page (selectprice.asp) and a form processing script (liststockbyprice.asp). In selectprice.asp, the user should be shown a form in which he can enter the item & desired maximum price. When it is submitted liststockbyprice.asp will return all the stocks from database whose cost are less than the price entered by user.
15.	15	Viva-voce

Discipline		B.Tech-IT
Semester		7 th Sem
Subject		Mobile Application Development Lab (IT-409 N)
Lesson Plan Duration		15 weeks(July, 2019 to Dec., 2019)
Workload		Practical-3
Week	Practical	
	Practical day	Topic
1.	1	Develop an application that uses GUI components, Font and Colours.
2.	2	Write an android application that demonstrates activity life cycle.
3.	3	Develop an application that uses Layout Managers and event listeners.
4.	4	Develop a native calculator applications.
5.	5	Write an android program to change the background of your activity.
6.	6	Write an application that draws basic graphical primitives on the screen.
7.	7	Develop an application to demonstrate the use of String.xml file.
8.	8	Implement an application that implenets multi-threading.
9.	9	Develop a native application that uses GPS location information.
10.	10	Implement an application that writes data to the SD card.
11.	11	Implement an application that creates an alert upon receiving a message.
12.	12	Write a mobile application that creates alarm clock.
13.	13	Develop a sign-in page with appropriate validation.
14.	14	Develop a real life application that makes use of database.
15.	15	Develop an application to demonstrate the use of Google Maps in Android.