## Name of the Department: Information Technology Programme : UG

S.no	Course code	Course name	Course outcome		
	SEMESTER I				
1.	15UITC11	Core – I: Programming in C	<ul> <li>Gaining experience about structured programming</li> <li>Helping students to understand the implementation of C language</li> <li>Familiarizing the students with basic concepts of computer programming</li> <li>Understanding the syntax and semantics of the "C" language as well as data types offered by the language</li> <li>Allowing the students to write their own programs using standard language infrastructure regardless of the hardware or software platform</li> <li>Providing ability to work with characters and strings.</li> <li>Letting the students to know the power of Modular Programming through Functions</li> <li>Providing skills to use Pointers for dynamic programming</li> <li>Enhancing the knowledge on storage through using Files</li> </ul>		
2.	15UITC1P	Core – II: Programming in C Lab	<ul> <li>Letting the students to learn C programming language through practical experience</li> <li>Providing students the ability to solve complex problems in a reasonable time</li> <li>Learning problem solving techniques in C</li> <li>Equipping the students to debug their own programs</li> <li>Understanding how to implement Programs with pointers and arrays</li> <li>Performing various operations on Strings</li> <li>Providing ability to work with Functions</li> <li>Providing knowledge on programming with Structures</li> <li>Enabling students to learn File concept</li> </ul>		
3.	15UITN11	Non Major Elective Course – I : Principles of Information	<ul> <li>Introduce the importance of Information in IT</li> <li>Understand the Evolution of computers</li> <li>Explain a beginner how computer works</li> <li>Understand the various software and hardware</li> </ul>		

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		Technology	components of computer
			• Understanding the networks concept
			• Creating awareness about Internet and its purpose
			Learning various protocols on Internet
			• Allowing students to know about E-Mail and other
			internet accounts
			Getting basic knowledge on Corel Draw
			• Understanding the local needs of learning a
			designing package
			• Improving the skills of graphics creation
			• Introducing text effects for various illustrations
			• Understanding graphic formats and conventions that
			gives publications a quality look
4	15UITE1P	Enrichment Course – I: DTP Lab	• Writing and editing a basic shape to create a
т.			different figure
			• Learning how to design a certificate with transparent
			backgrounds
			• Developing logos and badges to improve own
			creativity
			• Providing skills to design invitations and banner
			• Learning how to design a Calendar
			Learning zipper &twister effects of shapes
			SEMESTER II
			• Understanding how C++ improves C with object-
			oriented features
			• Learning the syntax and semantics of the C++
			programming language.
			• Learning how to write inline functions for efficiency
		Core – III: Object	and performance
1	151117021	Oriented	• Learning now to design C++ classes for code
1.	13011021	Programming With	• Learning how to implement conv constructors and
		C++	class member functions
			• Learning how to overload functions and operators in
			C++.
			• Learning how containment and inheritance promote
			code reuse in C++.
			• Learning how inheritance and virtual functions

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			<ul> <li>implement dynamic binding with polymorphism</li> <li>Understanding the concept of data abstraction and encapsulation</li> <li>Learning how to design and implement generic classes with C++ templates.</li> <li>Learning how to use exception handling in C++ programs.</li> <li>Learning how to work with strings in C++ programming language</li> </ul>
2.	15UITC2P	Core – IV: Object Oriented Programming With C++ Lab	<ul> <li>Improving problem solving skills using C++</li> <li>Understanding the difference between C structures and C++ classes</li> <li>Enabling the students to effectively use Constructors &amp; Destructors</li> <li>Implementing programs to obtain Overloading concept</li> <li>Learning the concept of various Inheritance techniques</li> <li>Implement Friend Functions to understand the code reusability in C++</li> <li>Learning exception handling mechanisms</li> <li>Implement file concepts using C++</li> </ul>
3.	15UITN21	Non Major Elective Course – II: Office Automation	<ul> <li>Giving knowledge of computer fundamentals</li> <li>Introducing Windows OS and its Accessories</li> <li>Achieving better typing and editing documents through Word that helps to improve quality of document</li> <li>Learning the Mail Merge concept</li> <li>Simplifying operations and minimizing manual errors by using Excel</li> <li>Understanding how to present data for better communication through Excel</li> <li>Helping Data management using Access</li> <li>Gaining the presentation ability through Power point</li> </ul>
4.	15UITE2P	Enrichment Course – II: PC Software Lab	<ul> <li>Giving knowledge on MS Office package</li> <li>Learning to insert pictures to create advertisements</li> <li>Designing newspaper with header &amp; footer</li> <li>Learning how to do Mail Merge practically</li> </ul>

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		SE	<ul> <li>Understanding the concept of Macros</li> <li>Providing ability to understand Excel functions</li> <li>Understanding the graphical representation of compact data using Excel charts</li> <li>Providing better skill to effectively use Power point for presentation</li> <li>Learning the main use of Access for storage and retrieval through queries</li> </ul>
		SE	
1.	15UITC31	Core – V: Data Structures and Algorithms	<ul> <li>Understanding the basic concepts of data structures and algorithms</li> <li>Understanding the concepts about searching and sorting techniques</li> <li>Learning basics about dynamic data structure</li> <li>Knowing about algorithm design paradigm based on multi-branched recursion</li> <li>Understanding the concepts of Stack &amp; Queue</li> <li>Gaining knowledge on Trees</li> <li>Learning different approaches like Divide &amp; Conquer, Dynamic Programming, Greedy and Backtracking</li> <li>Learning algorithms which are used to give optimal solutions to every problem</li> </ul>
2.	15UITC3P	Core – VI: Data Structures and Algorithms lab	<ul> <li>Improving the ability of students to choose appropriate data structure as applied to specified problem definition</li> <li>Getting knowledge on efficient storage mechanisms of data for an easy access</li> <li>Knowing the different searching algorithms</li> <li>Making the students to be able to use linear and non-linear data structures like stacks, queues</li> <li>Understanding simple sorting algorithms that repeatedly sort</li> <li>Learning complex sorting algorithms that produce less time complexity than other algorithms</li> <li>Understanding various linked list concepts</li> <li>Evaluating data through Trees</li> </ul>
3.	15UITA31	Allied – III: Digital	• Applying the principles of Boolean algebra to

S.no	Course code	Course name	Course outcome
		Principles and Computer Organization	<ul> <li>manipulate and minimize logic expressions</li> <li>Understanding the basic principles of Digital Systems</li> <li>Designing logic functions with AND, OR, NAND, NOR and XOR gates with minimum number of gate delays or literals.</li> <li>Understanding the use of K-maps to minimize and optimize two-level logic functions</li> <li>Analyzing the operation of sequential circuits that built with various flip-flops</li> <li>Understanding the operations of state-of-the-art components to design and build complex digital systems.</li> <li>Understanding the concepts of data paths, control units, and micro-operations and building blocks of digital systems</li> <li>Articulating how modern microelectronics has impacted society</li> </ul>
4.	15UITS3P	Skill Based Course – I: Digital Principles Lab	<ul> <li>Getting good knowledge about the concepts of digital electronics</li> <li>Exploring the process of all logic gates</li> <li>Training students with all the equipments which will help in improving the basic knowledge on gates</li> <li>Demonstrating circuit operation that can be implemented in properly constructed digital circuits</li> <li>Gaining knowledge on applying theorems</li> <li>Understanding the implementation of sequential digital logic circuits</li> <li>Analyzing a circuit and compare its theoretical performance with actual performance</li> </ul>
5.	15UITV31	Value Based Course – I: Management Information System	<ul> <li>Understanding the purpose of analytical and reflective skills in decision making</li> <li>Improving communication effectively in both orally and in writing</li> <li>Recognizing legal and ethical issues of a firm</li> <li>Contributing to the performance of a group within a business setting</li> <li>Knowing the differences among global economies,</li> </ul>

S.no	Course code	Course name	Course outcome
			<ul> <li>institutions, business practices and cultures</li> <li>Analyzing and gathering requirements and design systems</li> </ul>
			<ul> <li>Understanding of develop, control and manage</li> </ul>
		۲ ا	• Draviding a sound introduction to the discipling of
1.	15UITC41	Core – VII: RDBMS	<ul> <li>Providing a sound introduction to the discipline of database management</li> <li>Familiarizing the students with the uses of database environments towards an information-oriented dataprocessing framework</li> <li>Giving an introduction to systematic database design approaches covering conceptual design, logical design and an overview of physical design</li> <li>Giving a good formal foundation on the entity relationship model of data</li> <li>Familiarizing with the process of organizing the attributes and relations of relational database to reduce data redundancy and improve data integrity</li> <li>Presenting the concepts and techniques related to query processing by SQL engines</li> <li>Getting familiar with procedural language as extension to standard SQL</li> <li>Providing a way to execute procedural logic on the database</li> <li>Learning to use PL/SQL program associated with specific database table to implement various</li> </ul>
			concepts
2.	15UITC4P	Core – VIII: RDBMS Lab	<ul> <li>Familiarizing with query language</li> <li>Giving a good formal foundation on the relational model of data</li> <li>Having a good understanding of DML commands and DCL commands</li> <li>Presenting the concepts and techniques related to query processing by SQL engines</li> <li>Familiarizing advanced SQL queries</li> <li>Letting student to define own exceptions according to the need of neurons</li> </ul>

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			<ul> <li>Understanding cursor programming concept</li> <li>Presenting the concepts and techniques relating to ODBC and its implementations</li> <li>Enabling student to familiar with "business logic"</li> <li>Learning to create own functions</li> <li>Understanding of programming in PL/SQL using various concepts</li> </ul>
3.	15UITA4P	Allied Course – IV: Unix Lab	<ul> <li>Learning basic Unix commands</li> <li>Understanding the concept of C Programming with Unix</li> <li>Getting knowledge on various shell commands used in files</li> <li>Understanding the SED command and its purpose</li> <li>Learning ideas about using the AWK and Grep commands</li> <li>Getting knowledge on Directory structure commands</li> <li>Understanding the difference between programming in Windows and Unix platforms</li> <li>Enabling students to write their own shell scripts for various concepts</li> <li>Demonstrating the Unix OS structure through wide variety of commands</li> <li>Understanding the major difference between commands of same category and performance</li> </ul>
4.	15UITO41	Optional / Elective Course – I: 1. Operating System	<ul> <li>Learning the fundamentals of Operating Systems</li> <li>Understanding the structure and services of operating system</li> <li>Learning the mechanisms to handle process and its communication</li> <li>Knowing scheduling systems of CPU</li> <li>Providing the knowledge of basic concepts towards process synchronization and related issues</li> <li>Gaining knowledge on handling multi processor problems</li> <li>Getting knowledge on distributed systems</li> <li>Learning the memory management capabilities of OS</li> <li>Studying about methods and data structures that are</li> </ul>

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			used by OS • Understanding the U/O devices used by system to			
			• Understanding the 1/O devices used by system to communicate with OS			
			Knowing of Artificial Intelligence techniques			
			• Understanding the development of computer			
			functions associated with human intelligence			
			<ul> <li>Getting knowledge on AI techniques</li> </ul>			
			• Learning basics about knowledge representation and			
		Optional / Elective	its issues			
5.	15UITO42	Course – I:	• Understanding the well designed game playing systems			
		2. Artificial	• Understanding of syntactic processing, semantic			
		Intelligence	analysis of Natural Language Processing			
			• Learning the mental phenomena by interconnected			
			networks of simple and uniform units			
			• Providing ability to solve complex problems by			
			reasoning about knowledge			
			• Learning expert system and robot architecture			
			<ul> <li>Introducing various phases of compiler design</li> </ul>			
			• Learning the basics of compiler which convert high			
			level language into low level language			
			• Understanding lexical analysis			
		Optional / Elective Course – I: 3. Compiler Design	• Familiarizing with parsers which uses semantic analyzer			
6.	15UITO43		• Identifying the similarities and differences among			
			various parsing techniques			
			Providing knowledge on address codes			
			• Understanding the exact compilation process			
			• Knowing about optimizer used to reduce the size of			
			program			
	SEMESTER V					
			Learning the basic concept of Java Programming			
1.			• Understanding how to use Java in day to day			
	15UITC51	Core – IX·	applications			
		Programming in Java	• Learning basics like loops, arrays, input/output			
		i iogramming m su vu	structures, events, exceptions, and threads.			
			• Understanding various forms of data, control and			
			object structures supported by the Java language			

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			<ul> <li>Recognizing similarities and common characteristics between Java and other programming languages</li> <li>Understanding the interaction with Files in Java</li> <li>Learning the importance of AWT</li> <li>Understanding the graphical user interface components.</li> <li>Providing knowledge on developing and implementing applets</li> <li>Gaining knowledge on Networking using Java</li> </ul>
2.	15UITC5P	Core – X: Programming in Java Lab	<ul> <li>Understanding the basic fundamentals of Programming such as variables, conditional and iterative execution, methods etc.</li> <li>Learning Java Programming with object-oriented concepts</li> <li>Knowing how to use Java's API in applications.</li> <li>Understanding abstract data types, encapsulation, inheritance and polymorphism</li> <li>Understanding the concept file operations</li> <li>Learning about the applet programs with thread implementation</li> <li>Studying the concepts of AWT components</li> <li>Learning how to use Threads</li> <li>Introducing knowledge on testing, documenting and preparing a professional looking Package</li> <li>Learning the implementation of Applets</li> <li>Knowing about exception handling mechanisms and Networking through Java.</li> </ul>
3.	15UITC52	Core – XI: Dot Net Programming	<ul> <li>Setting up a programming environment for VB.net programs.</li> <li>Understanding of configuringanVB.net application.</li> <li>Understanding the features of .Net frameworks</li> <li>Creating ASP.Net applications using standard .net controls.</li> <li>Developing a data driven web application.</li> <li>Connecting to data sources and managing them.</li> <li>Maintaining session and controls related information for user used in multi-user web applications</li> <li>Understanding the fundamentals of developing</li> </ul>

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			<ul> <li>modular application by using object oriented methodologies</li> <li>Improving proficiency in C# by building stand-alone applications in the .NET framework using C#.</li> <li>Creating distributed data-driven applications using the .NET Framework, C# and ADO.NET</li> <li>Creating web-based distributed applications using C#, ASP.NET and ADO.NET</li> </ul>
4.	15UITC5Q	Core – XII: Dot Net Programming Lab	<ul> <li>Understanding .NET Framework and describing some of the major enhancements to the new version of Visual Basic.</li> <li>Describing the basic structure of a Visual Basic.NET features of the integrated development environment (IDE)</li> <li>Creating applications using Microsoft Windows Forms</li> <li>Learning how to use Crystal Reports</li> <li>Understanding and using the concepts of objects, primitive value, message, method, selection control structure, repetition control structures, object reference, container, and method parameter</li> <li>Developing a working knowledge of C# programming constructs and the .NET Framework.</li> <li>Building and debugging well-formed Web Forms with ASP. NET Controls.</li> <li>Creating applications that use ADO. NET</li> <li>Using ADO.NET in a web application to read, insert, and update data in a database</li> </ul>
5.	15UITO51	Optional / Elective Course – II: 1. Computer Networks	<ul> <li>Explaining how communication works in computer networks and to understand the basic terminology of computer networks</li> <li>Explaining the role of protocols in networking and to analyze the services and features of the various layers in the protocol stack.</li> <li>Providing students with an overview of the concepts and fundamentals of data communication and computer networks</li> <li>Familiarizing with the basic taxonomy and</li> </ul>

S.no	Course code	Course name	Course outcome
			<ul> <li>terminology of computer networking area.</li> <li>Experiencing the designing and managing of communication protocols while getting a good exposure to the TCP/IP protocol suite</li> <li>Understanding Routing mechanisms</li> <li>Becoming familiar with mechanisms and protocols for reliable data communications in various computer network architectures.</li> <li>Studying about the Network architecture OSI, TCP/IP etc.</li> <li>Learning about the Protocols HTTP and FTP and protocol designs.</li> <li>Knowing about the Network applications in each layer.</li> </ul>
6.	15UITO52	Optional / Elective Course – II: 2. Client/Server Computing	<ul> <li>Defining a client/server network.</li> <li>Describing how the hardware and software are combined to implement Client/server computing.</li> <li>Implementing the current client/server standards.</li> <li>Describing the basic client/server models.</li> <li>Demonstrating the concepts of a typical client operating system.</li> <li>Implementing typical client software.</li> <li>Demonstrating the difference between client and server hardware technology.</li> <li>Demonstrating the uses of client/server software and hardware.</li> <li>Understanding the different Server OS</li> <li>Defining the role of Backup &amp; recovery mechanisms</li> </ul>
7.	15UITO53	Optional / Elective Course – II: 3. Neural Networks	<ul> <li>Understanding the role of neural networks in engineering, artificial intelligence, and cognitive modeling.</li> <li>Providing knowledge of supervised learning in neural networks</li> <li>Providing knowledge of computation and dynamical systems using neural networks</li> <li>Providing knowledge of reinforcement learning using neural networks.</li> <li>Learning about different memory definitions</li> </ul>

S.no	Course code	Course name	Course outcome
			<ul> <li>Knowing about the concepts of hands-on experience in selected application</li> <li>Understanding the basic signal processing.</li> <li>Realizing the basic neural network models</li> <li>Studying about counter propagation networks</li> <li>Knowing about Self Organizing Maps</li> </ul>
8.	15UITS5P	Skill Based Course – III: Soft Skill Training	<ul> <li>Helping the students to understand interpersonal skills.</li> <li>Enhancing holistic development of students and improve their employability skills.</li> <li>Supporting students in building interpersonal skills.</li> <li>Giving better the ability to work with others.</li> <li>Developing inter personal skills to be an effective goal oriented team player.</li> <li>Developing professionals with idealistic, practical and moral values.</li> <li>Developing communication and problem solving skills.</li> <li>Understand Re-engineering attitude and its influence on behavior.</li> <li>Developing effective presentation skills.</li> </ul>
9.	15UITS5Q	Skill Based Course – IV: Network Programming Lab	<ul> <li>Mastering the terminology and concepts of the OSI reference model and the TCP- IP Reference model.</li> <li>Mastering the concepts of UDP &amp; TCP protocols,</li> <li>Understanding network interfaces and design/performance issues in networks</li> <li>Familiarizing with client/server concept</li> <li>Familiarizing with contemporary issues in networking technologies</li> <li>Introducing network tools and network programming through sockets</li> <li>Providing knowledge on connection less and connection oriented services</li> <li>Introducing the layer concept through C Programming</li> <li>Understanding a single client/server and multi client/server technologies</li> </ul>

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10.	15UITJ5P	On Job Training	<ul> <li>Providing self confidence to handle a major project</li> <li>Allowing students to have a pre experience of writing an abstract</li> <li>Introducing recent techniques to do a project easily and usefully</li> <li>Helping students to understand the company environment</li> <li>Analyzing students performance through their Record submission</li> <li>Making students to have different ideas over different projects</li> <li>Giving exposure to new hardware / software</li> <li>Understanding the capabilities of a developer</li> <li>Making the students more vigilance in selecting their major project</li> </ul>
			SEMESTER VI
1.	15UITC61	Core – XIII: Web Technology	<ul> <li>Demonstrating competency in the use of common HTML code.</li> <li>Understanding XML and its purpose</li> <li>Creating web pages using DHTML.</li> <li>Constructing pages that meet the needs of an identified audience.</li> <li>Understanding various Script languages like VBScript, Javascript</li> <li>Demonstrating proficiency in the use of a WYSIWYG design software.</li> <li>Learning how to embed scripts within a HTML code</li> <li>Creating web pages using PHP and Java script</li> <li>Understanding how CSS affects web page creation.</li> </ul>
2.	15UITC6P	Core – XIV: Web Technology Lab	<ul> <li>Designing and implementing dynamic websites with good aesthetic sense</li> <li>Getting a good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services.</li> <li>Designing web pages through code using HTML and DHTML.</li> <li>Understanding how to use Dream Weaver IDE</li> <li>Familiarizing the concept Scripting.</li> </ul>

S.no	Course code	Course name	Course outcome
			<ul> <li>Understanding the usage of JavaScript and VBScript</li> <li>Providing knowledge on Event Handling and Validation</li> <li>Learning PHP syntax, variables, loops and constructs.</li> <li>Learning XML Technologies</li> <li>Understanding CSS with HTML.</li> </ul>
3.	15UITC62	Core – XV: Software Engineering	<ul> <li>Providing an ability to apply knowledge of mathematics, science, and engineering.</li> <li>Creating an ability to design and conduct experiments, as well as to analyze and interpret data.</li> <li>Learning different stages in software development</li> <li>Giving an ability to design a system, component, or process to meet desired needs within realistic constraints</li> <li>Introducing an ability to function on multidisciplinary teams.</li> <li>Providing an ability to identify, formulate, and solve engineering problems.</li> <li>Understanding of professional and ethical responsibility.</li> <li>Giving an ability to design software effectively.</li> <li>Providing the broad education necessary to understand the impact of engineering solutions</li> <li>Educating the techniques on software testing</li> <li>Giving knowledge of software maintenance.</li> </ul>
4.	15UITO61	Optional / Elective Course – III: 1. Data Mining & Data Warehousing	<ul> <li>Introducing the basic concepts of Data Warehouse and Data Mining techniques.</li> <li>Getting knowledge on OLAP operations.</li> <li>Discovering interesting patterns and analyze supervised and unsupervised models and estimate the accuracy of the algorithms.</li> <li>Processing raw data to make it suitable for various data mining algorithms.</li> <li>Discovering and measure interesting patterns from different kinds of databases.</li> <li>Applying the techniques of clustering, classification, association finding, feature selection and</li> </ul>

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			visualization to real world data.
			• Understanding various algorithms in DM
			• Developing practical work of DM techniques and
			design hypotheses based on the analysis to
			conceptualize a DM solution to a practical problem.
			• Learning different clustering techniques.
			• Exploring Data mining and data ware housing applications in bio informatics
			Understanding Infrastructure and operations
		Optional / Elective Course – III: 2. Cloud Computing	• Identifying the cloud-computing-related IT services
			• Documenting the internal processes that will be
			• Mapping applications and workloads to the
			associated cloud services
			• Delivering a commitment of quality of work to the
			public
_			• Protecting information resources from supply chain
5.	15011062		threats.
			• Securing assurances associated with the hardware
			and software used.
			• Learning different services offered by Cloud
			• Preventing unauthorized access to cloud computing
			infrastructure resources.
			• Expertise of service delivered by our well trained
			<ul> <li>Understanding real time sloud based web services</li> </ul>
			<ul> <li>Understanding real time cloud based web services</li> <li>Understanding the basics of embedded system</li> </ul>
	15UITO63	Optional / Elective Course – III: 3. Embedded Systems	• Onderstanding the basics of embedded system,
			<ul> <li>Knowing network devices and communication buses</li> </ul>
			device drivers
			• Knowing about applying programming concept to
6.			embedded devices using C and C++
			• Understanding the program modeling concepts
			• Knowing the processes, threads and inter process
			communications
			• Enriching real time operating system and its services,
			process management
			• Understanding the functionalities of Real time OS

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			• Providing introduction to IPC for modeling concepts
			• Giving knowledge on Processor and Memory
			organization
			• Explaining real word interfacing techniques
	15UITS61	Skill Based Course –	• Understanding basics of biometric and its policy
			• Knowing Biometric technologies through interaction
			with finger biometric
			• Understanding the impact biometric authentication
			like face, voice, Iris
			Knowing various classical encryption techniques
7.			• Knowing cryptography methods like public key
		Biometrics and Information Security	• Knowing message authentication and hash functions
			• Learning various cryptographic algorithms
			• Enforcing students to follow basic bio metric
			techniques to protect information
			• Introducing various techniques for information
			security
			Giving knowledge on security fisks     Understanding the package Adobe Photoshop
	15UITV6P	Value Based Course – II: Multimedia Lab	<ul> <li>Onderstanding the package Adobe Photoshop</li> <li>Designing different shapes</li> </ul>
			<ul> <li>Designing unrerent snapes</li> <li>Providing knowledge on moving pictures and stable</li> </ul>
			<ul> <li>Providing knowledge on moving pictures and stable pictures</li> </ul>
8			• Stimulating students to create wide variety of
			animations of their own
			<ul> <li>Making students to create interesting edited images</li> </ul>
0.			<ul> <li>Allowing students to improve their designing skill</li> </ul>
			• Giving ideas on Macromedia Flash
			• Introducing various techniques to video editing
			• Providing knowledge on flash buttons
			• Making students to create interesting patterns behind
			their own website designs