





#### BCA Semester I Computer Fundamentals I 2017-18

	BCA Semester I Computer Fundamentals I 2017	7-18
Month	Topics Covered	Other Activities
July	Introduction to Computer: Definition, Diagram, Characteristics, Classification of Computers: Analog Computers, Digital Computers, Hybrid Computers, Classifications of computer on the basis of size and speed, different type of computers, Generation of computers.	Assignment
August	Applications of Computer: Desktop publishing, design and manufacturing, military, robotics, planning and management, marketing, communications, education.  Input Devices: keyboard, mouse, track ball	Class Test
September	touch pad, joystick, touch sensitive screens, pen based systems, digitizer, data scanning devices, optical recognition systems, bar code readers, optical mark readers, Optical character reader, optical scanners: drum scanners, hand scanner, flatbed scanner, web camera, game pad, digital camera.	Assignment
October	Output Devices: Hard copy devices: Printer (impact printers) daisy wheel, dot matrix printer, line printer, chain printers, comb printers, (non-impact printers) DeskJet, inkjet, laser printer, thermal transfer printer, barcode printers	Project

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#### VCA Semester I Computer Fundamentals I 2017-18

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Month	Topics Covered	Other Activities
July	Introduction to Computer: Definition, Diagram, Characteristics, Classification of Computers: Analog Computers, Digital Computers, Hybrid Computers, Classifications of computer on the basis of size and speed, different type of computers, Generation of computers.	Assignment
August	Applications of Computer: Desktop publishing, design and manufacturing, military, robotics, planning and management, marketing, communications, education.  Input Devices: keyboard, mouse, track ball	Class Test
September	touch pad, joystick, touch sensitive screens, pen based systems, digitizer, data scanning devices, optical recognition systems, bar code readers, optical mark readers, Optical character reader, optical scanners: drum scanners, hand scanner, flatbed scanner, web camera, game pad, digital camera.	Assignment
October	Output Devices: Hard copy devices: Printer (impact printers) daisy wheel, dot matrix printer, line printer, chain printers, comb printers, (nonimpact printers) DeskJet, inkjet, laser printer, thermal transfer printer, barcode printers	Project

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#### BCA Semester III Java Programming I 2017-18

Month		bea semester in Java Programming 1 2017-16	
July  JAVA: Introduction to Object Orientated Programming, Abstraction, Object Oriented Programming Principles, Features of JAVA, Introduction to JAVA byte code  Program elements; Primitive data types, variables, Input Output in Java, operators: arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	Month	Topics Covered	
Programming, Abstraction, Object Oriented Programming Principles, Features of JAVA, Introduction to JAVA byte code			Activities
Programming Principles, Features of JAVA, Introduction to JAVA byte code  Program elements; Primitive data types, variables, Input Output in Java, operators: arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, for- each, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with			
August  Programming Principles, Features of JAVA, Introduction to JAVA byte code  Program elements; Primitive data types, variables, Input Output in Java, operators: arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	luly		Assignment
August  Program elements; Primitive data types, variables, Input Output in Java, operators: arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	,,		rissignment
August  Variables, Input Output in Java, operators: arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with			
August  arithmetic, assignment, logical, bit wise, relational, Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with			
relational , Boolean logical operators, operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		variables, Input Output in Java, operators:	
Operator precedence.  Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	August	arithmetic, assignment, logical, bit wise,	Class Test
Control statements: Java's Selection Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		relational, Boolean logical operators,	
Statements, if statement, switch statement, Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		operator precedence.	
September  Iteration statements, while, do-while, foreach, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with  Assignment  Assignment		Control statements: Java's Selection	
each, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		Statements, if statement, switch statement,	
October  each, Nested loop, Jump Statement, using break, continue, return. Arrays, One & Two Dimensional Array  Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes.  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	Sentember	Iteration statements, while, do-while, for-	A
Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	september	each, Nested loop, Jump Statement, using	Assignment
Object and classes: Objects, constructors, returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		break, continue, return. Arrays, One & Two	
October  returning and passing objects as parameter, Nested and inner classes. Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		Dimensional Array	
October    parameter, Nested and inner classes.   Inheritance: Definition & its Types,   Extended class, usage of Super,   Overloading and overriding methods,   Abstract classes, using final with		Object and classes: Objects, constructors,	
October  Inheritance: Definition & its Types, Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with		returning and passing objects as	
Extended class, usage of Super,  Overloading and overriding methods,  Abstract classes, using final with		parameter, Nested and inner classes.	
Extended class, usage of Super, Overloading and overriding methods, Abstract classes, using final with	October	Inheritance: Definition & its Types,	Desires
Abstract classes, using final with	October	Extended class, usage of Super,	Project
		Overloading and overriding methods,	
inheritance.		Abstract classes, using final with	
		inheritance.	

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**BCA Semester V Mobile Computing 2017-18** 

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Month		Topics Covered	Activities
July	communio WAN, MA	ng Basics: Introduction to digital cations, Types of network: LAN, AN, Types of network terminal: Server, Client, Bus, Ring, Star, Tree/Snowflake, Mesh, Combined	Assignment
August	Bit ra Signal type Modulation Transmissi cable, Co Unguide	gy: Amplitude, Frequency, Phase, ate, Baud rate, Bandwidth. es: Analog signals, Digital signals, n: Amplitude, Frequency, Phase, Demodulation, ion Media: Guided (Twisted pair axial cable, Fibre Optic Cable), ed (Radio waves, Microwaves, ransmission Mode: Parallel, Serial	Class Test
September	Mobile Co wireless N Applicati computing	mputing: Mobile Computing Vs Networking, Mobile Computing ions, Characteristics of Mobile , Structure of Mobile Computing tion, Mobile Communication: requirements	Assignment
October	Types of Har 5G, Global F	anagement: Handoff Techniques, ndoff, Current trends: 3G, 4G and Positioning System (GPS) Mobile Pv6, FTP, VLAN, HTTPS	Project

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# BBA Semester V Management Information System 2017-18

Month  Topics Covered  MIS Information Concepts: Information Definition, Information Vs Data, Information, Knowledge and Business Intelligence, Information/Data Collection Techniques, Classification of Information, Quality of Information, Implications of Information in Business  Information system, Types of information system, CBIS, Basic components of CBIS.  Concept and Definition of MIS, Objectives of MIS, Characteristics of MIS, MIS and Its Functional Subsystems, Role of Computers in MIS, Organizational Need for MIS, Scope of MIS.  Decision Making: Concepts, Decision Making Process, Decision Tree Analysis, Decision Analysis by Analytical Modeling, MIS and decision making. Decision Support Systems (DSS): Concept and Philosophy, DSS Models.  Major Enterprise Applications: Enterprise Resource Planning (ERP) - What is ERP?, Benefits and Challenges of ERP, Trends in ERP, Customer Relationship Management (CRM) What is CRM?, The Three Phases of CRM, Benefits and Challenges of SRM.  MIS Development: Overview of System Analysis and Design, System Development Life Cycle (SDLC), System Development Models - Waterfall & Prototyping, Guidelines for successful implementation of MIS. Factors Contributing to Success & Failure of MIS.  MIS Security: Business/IT Security, Ethics, and Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.  Assignment  Assignment  Project  Project		MIS Information Concepts: Information	1
MIS Information Concepts: Information Definition, Information Vs Data, Information, Knowledge and Business Intelligence, Information/Data Collection Techniques, Classification of Information, Quality of Information, Implications of Information in Business  Information system, Types of information system, CBIS, Basic components of CBIS.  Concept and Definition of MIS, Objectives of MIS, Characteristics of MIS, MIS and Its Functional Subsystems, Role of Computers in MIS, Organizational Need for MIS, Scope of MIS.  Class Test  Decision Making: Concepts, Decision Making Process, Decision Tree Analysis, Decision Analysis by Analytical Modeling, MIS and decision making. Decision Support Systems (DSS): Concept and Philosophy, DSS Models.  Major Enterprise Applications: Enterprise Resource Planning (ERP) - What is ERP?, Benefits and Challenges of ERP, Trends in ERP, Customer Relationship Management (CRM) - What is CRM?, The Three Phases of CRM, Benefits and Challenges of CRM.  MIS Development: Overview of System Analysis and Design, System Development Life Cycle (SDLC), System Development Models - Waterfall & Prototyping, Guidelines for successful implementation of MIS. Factors Contributing to Success & Failure of MIS.  MIS Security: Business/IT Security, Ethics, and Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.	July	MIS Information Concepts: Information Definition, Information Vs Data Information	Activities
August  Concept and Definition of MIS, Objectives of MIS, Characteristics of MIS, MIS and Its Functional Subsystems, Role of Computers in MIS, Organizational Need for MIS, Scope of MIS.  Decision Making: Concepts, Decision Making Process, Decision Tree Analysis, Decision Analysis by Analytical Modeling, MIS and decision making.  Decision Support Systems (DSS): Concept and Philosophy, DSS Models.  Major Enterprise Applications: Enterprise Resource Planning (ERP) - What is ERP?, Benefits and Challenges of ERP, Trends in ERP, Customer Relationship Management (CRM) - What is CRM?, The Three Phases of CRM, Benefits and Challenges of CRM.  MIS Development: Overview of System Analysis and Design, System Development Life Cycle (SDLC), System Development Models - Waterfall & Prototyping. Guidelines for successful implementation of MIS. Factors Contributing to Success & Failure of MIS.  MIS Security: Business/IT Security, Ethics, and Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.		Knowledge and Business Intelligence, Information/Data Collection Techniques, Classification of Information, Quality of Information, Implications of Information in	Assignment
Resource Planning (ERP) - What is ERP?, Benefits and Challenges of ERP, Trends in ERP, Customer Relationship Management (CRM) - What is CRM?, The Three Phases of CRM, Benefits and Challenges of CRM.  MIS Development: Overview of System Analysis and Design, System Development Life Cycle (SDLC), System Development Models - Waterfall & Prototyping. Guidelines for successful implementation of MIS. Factors Contributing to Success & Failure of MIS.  MIS Security: Business/IT Security, Ethics, and Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.	August	system, CBIS, Basic components of CBIS.  Concept and Definition of MIS, Objectives of MIS, Characteristics of MIS, MIS and Its Functional Subsystems, Role of Computers in MIS, Organizational Need for MIS, Scope of MIS.  Decision Making: Concepts, Decision Making Process, Decision Tree Analysis, Decision Analysis by Analytical Modeling, MIS and decision making.  Decision Support Systems (DSS): Concept and	
October  Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.	September	Resource Planning (ERP) - What is ERP?, Benefits and Challenges of ERP, Trends in ERP, Customer Relationship Management (CRM) - What is CRM?, The Three Phases of CRM, Benefits and Challenges of CRM.  MIS Development: Overview of System Analysis and Design, System Development Life Cycle (SDLC), System Development Models - Waterfall & Prototyping. Guidelines for successful implementation of MIS. Factors Contributing to	Assignment
D 1	October	MIS Security: Business/IT Security, Ethics, and Society, Computer Crime, Privacy Issues & Other Challenges, Health Issues, Inter-Networked Security Defences & Other Security Measures.	Project

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MSc Semester III Cloud Computing 2017-18

Month	Topics Covered	Other Activities
July	Introduction to Cloud Computing Introduction, Layers and Types of Clouds, Desired Features of a Cloud, Cloud Infrastructure Management	Assignment
August	Service Models: Infrastructure as a Service(IaaS), Platform as a Service Providers(PaaS), Software as a Service (SaaS), Challenges and Risks. Infrastructure As A Service (IAAS) Virtual Machines, Distributed Management of Virtual Infrastructures	Class Test
September	Scheduling Techniques for Advance Reservation of Capacity, Cluster as a Service, Cloud Storage, Technologies for Data Security in Cloud Computing.  Platform As A Service (PAAS)  Technologies and Tools for Cloud Computing, Aneka Cloud Platform, Hybrid Cloud Implementation, Comet Cloud, Autonomic Behavior of Comet Cloud.	Assignment
October	An Introduction to the Data Security, Cloud Computing and Data Security Risk, The Cloud, Digital Identity, and Data Security, Legal Issues in Cloud Computing.	Project

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## BCA Semester II Computer Fundamentals II 2017-18

Month		Topics Covered	Other Activities
December		Introduction to memory, classifications	Assignment
January		random-access memory, volatile memory, non-volatile memory, flash memory, readonly memory, secondary memory, the cache memory, auxiliary storage memory, memory hierarchy, storage device, magnetic tape, magnetic disk, floppy disk, hard disks, CD, DVD.  Number system: binary, octal, hexadecimal	
February	· ·	addition, subtraction, multiplications. Computer code: BCD, ASCII, EBCDIC code, logic gates and Boolean algebra representation. Software: System software, application software, utility software	Assignment
March		Computer Viruses: Introduction, history, types of computer viruses, classification of viruses, symptoms of a computer virus, & ways to catch a computer virus.  Introduction of Internet, world wide web, how the web works, web standards, website, overview, types of websites, electronic mail, e-mail header, messages and mailboxes	Project

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#### VCA Semester II Computer Fundamentals II 2017-18

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Month	Topics Covered	Other Activities
December	Introduction to memory, classifications	Assignment
January	random-access memory, volatile memory, non- volatile memory, flash memory, read-only memory, secondary memory, the cache memory, auxiliary storage memory, memory hierarchy, storage device, magnetic tape, magnetic disk, floppy disk, hard disks, CD, DVD. Number system: binary, octal, hexadecimal	Class Test
February	addition, subtraction, multiplications. Computer code: BCD, ASCII, EBCDIC code, logic gates and Boolean algebra representation. Software: System software, application software, utility software	Assignment
March	Computer Viruses: Introduction, history, types of computer viruses, classification of viruses, symptoms of a computer virus, & ways to catch a computer virus.  Introduction of Internet, world wide web, how the web works, web standards, website, overview, types of websites, electronic mail, email header, messages and mailboxes	

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#### BCA Semester IV Java Programming II 2017-18

Month	Topics Covered	Other Activities
December	PACKAGE AND INTERFACES: Defining package, Concept of classpath	Assignment
January	access modifiers, importing package, Defining and implementing interfaces. STRING HANDLING: String constructors, special string operation, character	Class Test
	extraction, searching and comparing string, strings, string Buffer class	
February	EXCEPTION HANDLING: Exception handling fundamentals, Exception types, try, catch and multiple catch statements. Usage of throw, throws and finally. THREADING: Multithreading, multiprocessing, life cycle of thread, Garbage collection, and deadlock. File handling: input and output stream.	Assignment
March	Applet: applet Fundamentals, applet life cycle, using paint method and drawing polygon	Project

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## BCA Semester VI Mobile Application Development 2017-18

Month	Topics Covered	Other
Month	-	Activities
December	Android Introduction: History of Android, Definition of Android , Need of Android	Assignment
January	Features of Android, Android Applications, Categories of Android applications, API level. Android - Environment Setup: Set-up Java Development Kit (JDK) - JDK Versions, Download JDK, Install JDK and JRE, JDK's "bin" PATH, Set the Environment Variable JAVA_HOME, Verify the JDK Installation, Android IDEs: Android Studio - Install "Android Studio IDE" (For Windows), Installing Android SDK, Setup Emulator (Android Virtual Device AVD), Eclipse IDE.	Class Test
February	Android Application: Create Android Application, Anatomy of Android Application, Folder, File & Description, .java source files , res/drawable, res/layout, res/values, AndroidManifest.xml, The Main Activity File, The Manifest File, The Strings File, The Layout File, Running the Application - Run the Android App on Emulator. Run the Android App on Real Devices  Android - UI Layouts: Linear Layout, Relative Layout, Constraint layout, Layout Attributes, View Identification	Assignment
March	Android - Architecture: Linux kernel, Android Libraries, Android Runtime, Application Framework, Applications.  Android - Activities: Activity life cycle - onCreate(), onStart(), onResume(), onPause(), onStop(), onDestroy(), onRestart(),  Android - Broadcast Receivers: Creating the Broadcast Receiver, Registering Broadcast Receiver, Event Constant & Description.	Project
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#### MSc Semester II Programming in VB.NET 2017-18

Manak		Other
Month	Topics Covered	Activities
December	Introduction to Visual Basic .NET IDE and its features	Assignment
January	.NET framework, CLR. Language basics: data type, operators, control statements: branching and loopingNET Controls Forms, text boxes, labels, command button, radio button, option buttons, check boxes, list boxes and combo boxes, introduction to ActiveX controls	Class Test
	Strings and Arrays Working with Arrays, array resizing, System Array, class, manipulation of string, string functions for comparison, concatenation, copy, replace, substring, length.	
February	Working with Classes, Class properties and methods, attaching a class with a form Inheritance: derived from existing classes, overriding methods from base class	Assignment
March	Exception Handling Types of errors, structured and unstructured exceptions, Tracing Errors: breakpoints, watch, quick Watch, autos, locals, call stack.  Database Access ADO.NET and its Components, datasets, data adapters, server explorer, binding controls to database	Project

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