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### **DEPARTMENT OF COMPUTERS**

**B.COM (Computer Applications)** 

CBCS COURSE STRUCTURE							
PAPER		COURSE	HP	Hours/per week		Max.	Credits
		TITLE	W	Theory	Practical	Marks	
DSC103	Ι	Fundamentals of Information Technology	7	3	4	50T+35P + 15I	5
DSC203	II	Programming with C & C++	7	3	4	50T+35P + 15I	5
DSC303	III	Relational Database Management System	7	3	4	50T+35P + 15I	5
DSC403	IV	Web Technologies	7	3	4	50T+35P + 15I	5
DSE503	V	<ul> <li>a) Management Information Systems/</li> <li>b) Ecommerce/</li> <li>c) Mobile Applications</li> </ul>	7	3	4	50T+35P + 15I	5
DSE603	VI	<ul> <li>a) Multimedia Systems/</li> <li>b)Cyber Security/</li> <li>c) Data Analytics</li> </ul>	7	3	4	50T+35P + 15I	5
AECC1	Ι	Basic Computer Skills	2	-	-	40U+10I	2
AECC2	II	Basic Computer Skills	2	-	-	40U+10I	2
SEC1	III	Foundation of Digital Marketing	2	-	-	40U+10I	2
SEC2	III	Web Design & Analytics	2	-	-	40U+10I	2
SEC3	IV	Social Media Marketing	2	-	-	40U+10I	2
SEC4	IV	Search Engine Optimization & Online Advertising	2	-	-	40U+10I	2



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# **COURSE OBJECTIVES**

I Year Semester I	Subject: Fundamentals of	Code: DSC103		
	Information Technology			
COB1: Understand	the meaning and basic components of	a computer system.		
COB2: To learn gen	neration, classification and application o	f computers.		
COB3: Knowledge	of computer equipment, including both	hardware and software.		
	ut devices and output devices in detail.			
	mory and its types in detail.			
<b>COB6</b> : Knowledge of number system, number arithmetic, ASCII & EBCDEC				
character set				
<b>COB7</b> : Knowledge of Software, its types and application package.				
<b>COB8</b> : Use word-processing software (MS-Word), spreadsheet software (MS-Excel) and presentation software (MS-PowerPoint) to solve basic information systems				
problems.				

I Year Semester	Subject: Programming with C &	Code: DSC203		
II	C++			
COB1: To develop	programming skills using the fundament	tals and basics of C		
language.				
COB2: To learn prot	plem solving techniques.			
COB3: To study the	advantages of user defined data type which	ch provides flexibility		
for application devel	opment			
COB4: To study the	basics of pre-processors available with C	compiler.		
COB5: To enable eff	ective usage of arrays, structures, function	ons and pointers.		
COB6: To understar	nd how C++ improves C with object-orien	ted features.		
<b>COB7</b> : To learn how to write inline functions for efficiency and performance.				
<b>COB8</b> : To learn the syntax and semantics of the C++ programming language.				
<b>COB9</b> : To learn how to design C++ classes for code reuse				
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II Year Semester III	Subject:Relational Database	Code: DSC303		
	Management System			
<b>COB1</b> : Learn and practice data modelling using the entity-relationship and developing database designs.				
<b>COB2</b> : Understand the use of Structured Query Language (SQL) and learn SQL syntax.				
<ul> <li>COB3: Apply normalization techniques to normalize the database</li> <li>COB4: Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access.</li> <li>COB5: Understand the needs of Database Design</li> </ul>				





III Year	a) Management Information Systems/ b) Ecommerce/	Code: DSC503		
Semester V	c)Mobile Applications			
a) Managemen	t Information Systems			
<b>COB1:</b> Provide information to support management decision making				
COB2: Provide pro	e-specified and preplanner reporting to man	agers		
COB3: Provide int	eractive and ad-hoc support for decision ma	aking		
COB4: Provide cri	tical information for top management	-		
COB5: Gather and	store data from different departments			
b) Ecommerce				
COB1: This course	introduces information systems for busine	ss and management.		
COB2: It is design	ned to familiarize students with organization	onal and managerial		
foundations of systems, the technical foundation for understanding information				
systems				
c) Mobile Applications				
COB1. Create android project from XML Layout.				
COB2. Debug android apps and create UI fragments				
CODE. DOug and				
<b>COB2</b> : Debug and <b>COB3</b> . Pass data b				
COB3. Pass data b				

I Year Semester	Subject: Search Engine Optimization	
I	& Online Advertising	Code: SEC4
COB1: More visi	bility in the SERPs	
COB2: More traff	fic to your website and other assets.	
COB3: Better qua	lity traffic to your website and other assets	5
COB4: Greater in	telligibility to the public.	
<b>COB5:</b> Greater in	telligibility to search engines	





III Year Semester VI	a) Multimedia Systems/	Code: DSC603		
	b) Cyber Security/			
	c) Data Analytics			
a) Multimedia Syst				
	animation and interaction for multim	edia presentation		
	age types and color models			
COB3. Describe the co	oncepts regarding the digitization of a	udio signals		
COB4. Compress imag	ges, videos and audios using data com	pression methods		
COB5. Encode videos	and audios using MPEG			
b) Cyber Security				
COB1: Exhibit knowl	edge to secure corrupted systems, pro	tect personal data, and		
secure computer networ				
-	an expertise in academics to design an	nd implement security		
solutions.		1 5		
COB3: Understand ke	ey terms and concepts in Cryptogra	phy. Governance and		
Compliance.				
1	security strategies and policies			
1 1	inciples of web security and to guara	ntee a secure network		
<b>1</b>	sing the nature of attacks through cyb			
oftware/tools.	sing the nature of attacks through eye	en compater forensies		
011 W d1 C/ 10015.				
C) Data Analytics				
C) Data Marytics				
<b>CO1</b> . Explain data scie	ence and its applications.			
-	strategies of data collection and pre-p	rocessing		
<b>CO3</b> : Describe EDA.	sharegies of and concerned and pre-p	i o o o o o o o o o o o o o o o o o o o		
	methods to develop models.			
	ation metrics and techniques			
	ation metries and teeninques			





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I Year Semester I Subject: Basic Computer Skills	Code: AECC1				
COB1: Understand the meaning and basic components of a cor	<b>COB1</b> : Understand the meaning and basic components of a computer system.				
COB2: To learn generation, classification and application of co	mputers.				
COB3: Knowledge of computer equipment, including both har	<b>COB3</b> : Knowledge of computer equipment, including both hardware and software.				
<b>COB4</b> : To learn input devices and output devices in detail.	<b>COB4</b> : To learn input devices and output devices in detail.				
<b>COB5</b> : To learn memory and its types in detail.					
COB6: Knowledge of number system, number arithmetic, ASCII & EBCDEC					
character set					
<b>COB7</b> : Knowledge of Software, its types and application package.					
COB8: Use word-processing software (MS-Word), spreadsheet software (MS-					
Excel) and presentation software (MS-PowerPoint) to solve basic information					
systems problems.					

I Year Semester II	Subject: Basic Computer Skills	Code: AECC2

**COB1**: Understand the meaning and basic components of a computer system. **COB2**: To learn generation, classification and application of computers.

**COB3**: Knowledge of computer equipment, including both hardware and software.

COB4: To learn input devices and output devices in detail.

**COB5**: To learn memory and its types in detail.

**COB6**: Knowledge of number system, number arithmetic, ASCII & EBCDEC character set

**COB7**: Knowledge of Software, its types and application package.

**COB8**: Use word-processing software (MS-Word), spreadsheet software (MS-Excel) and presentation software (MS-PowerPoint) to solve basic information systems problems.





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II Year Semester IIISubject: Foundation of Digital<br/>MarketingCode: SEC1COB1:Increasing brand awareness: Online marketing helps to create and<br/>enhance brand visibility among the target audience.CoB2:Driving website traffic: Online marketing aims to attract relevant and<br/>quality traffic to a company's website. ...COB3:Generating leads: One of the primary objectives of online marketing is<br/>to capture potential customers' contact information and convert them into<br/>leads.

I Year Semester III	Subject: Web Design &	Code: SEC2		
	Analytics			
<b>COB1:</b> The information domain is modeled.				
<b>COB2:</b> Behavior is represented.				
COB3: Function is described.				
<b>COB4:</b> Data, functional, and behavioral models are divided to uncover greater				
detail.				
<b>COB5:</b> Early models represent the essence of the problem, while later ones				
provide implementation details.				

Year Semester I	Subject: Social Media Marketing	Code: SEC3			
<b>COB1:</b> Create and curate content. To stay afloat as a social media marketer, you					
need to invest time in content creation and curation. Know your audience well.					
Be ready to do content marketing day in and day out					
<b>COB2:</b> Drive traffic.					
<b>COB3:</b> Encourage lead generation					
<b>COB4:</b> Increase brand awareness.					





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## **COURSE OUTCOMES**

I Year Semester I	Subject: Fundamentals of	Code: DSC103	
	Information Technology		
After the completi	on of the course, Students will be ab	le to	
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CO1: Understand	<b>CO1:</b> Understand model, components of computer and how it works.		
<b>CO2:</b> Understand the concept of input and output devices of Computers in detail.			
CO3: Understand RAM, ROM and their types in detail.			
<b>CO4:</b> Understand the concepts, structure, types and design of operating Systems.			
CO5: Recognize when to use each of the Microsoft Office programs to create			
professional and academic documents.			
CO6: Students will have a working knowledge of paragraph formatting, macro			
and mail merge in MS-Word.			
<b>CO7:</b> Students will have a working knowledge of basic functions and formulas in			
MS Excel.			
CO8: Create presentation by adding slides, applying animations, set times to			
slides, linking to other file.			
I Year Semester II   Subject: Programming with C & C++   Code: DSC203			
After the completion of the course, Students will be able to			
<b>CO1:</b> Read, understand and trace the execution of programs written in C language.			
<b>CO2:</b> Write the C code for a given algorithm.			

**CO3:** Write programs that perform operations using derived data types.

**CO4:** Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor

**CO5:** Understand Opening/Closing a file, reading from and writing to a file.

**CO6:** Understand the features of C++ supporting object-oriented programming

**CO7:** Understand the relative merits of C++ as an object-oriented programming language

**CO8:** Understand how to produce object-oriented software using C++

**CO9:** Understand how to apply the major object-oriented concepts to implement object-oriented programs in C++, encapsulation, inheritance and polymorphism

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II Year Semester IIISubject:Relational Database<br/>Management SystemCode: DSC303After the completion of the course, Students will be able toCO1: To describe data models and schemas in DBMS<br/>CO2: To understand the features of database management systems and Relational<br/>database.CO3: To use SQL- the standard language of relational databases.<br/>CO4: To understand the functional dependencies and design of the database.CO5: To understand the concept of Transaction and Query processing.

II Year Semester IV	Subject: Web Technologies	Code: DSC403
After the completion	of the course, Students will be al	ole to
CO2: Learn the basic v CO3: Understand fund CO4: Specify design r	ic concepts for network implemen working scheme of the Internet and amental tools and technologies for ules in constructing web pages and nk, list (ordered and unordered), C	d World Wide Web r web design. l sites.



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III Year Semester V a)Management Information Systems/ Code: DSC503 b)Ecommerce/ ,c)Mobile Applications After Completion of the subject student should able to a)Management Information Systems **CO1:** Describe the role of information technology and information systems in business **CO2:** Record the current issues of information technology and relate those issues to the firm CO3: Reproduce a working knowledge of concepts and terminology related to information technology CO4: Appraise the knowledge previously acquired of Microsoft Office **CO5:** Analyze how information technology impacts a firm **CO6:** Interpret how to use information technology to solve business problems **CO7:** Illustrate the impact of information systems in society **b)Ecommerce CO1:** Understand the basic concepts and technologies used in the field of management information systems; **CO2:** Have the knowledge of the different types of management information systems; CO3: Understand the processes of developing and implementing information systems; **CO4:** Be aware of the ethical, social, and security issues of information systems; c)Mobile Applications **CO1:** Master practical tools, methods and techniques for the design, implementation, and pilot testing of mobile phone software applications. **CO2:** Understand advanced aspects of mobile application development such as memory and process management, user interface design, data handling, network techniques and use of mobile sensing. Evaluate the technical, social, and business dimensions of mobile **CO3**: applications using industrial standards.





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III Year Semester VI	a)Multimedia Systems/ b)Cyber Security/	Code: DSC603	
	c) Data Analytics		
After Completion of t	After Completion of the subject student should able to		
téchniques appropriate	clearly and concisely, visually, ver for the intended audience. wledge of discipline-specific skills a		
<b>CO2:</b> Determine and reduce the risk of exploit <b>CO3:</b> Measure the performance <b>CO4:</b> Implement cyber assurance, and cyber/c <b>CO5:</b> Comprehend ar methods, and key risk a <b>CO6:</b> Design and devel	valuate the cyber security needs of analyse software vulnerabilities a itation. formance and troubleshoot cyber s r security solutions and use of cy omputer forensics software/tools. Ind execute risk management pl and performance indicators op a security architecture for an or al and strategic cyber security stra	and security solutions to security systems. yber security, information processes, risk treatment rganization.	
<ul> <li>c) CO1:Present an overview data science and applications.</li> <li>CO2: Plan the methods of data collection.</li> <li>CO3: Describe the statistical methods in EDA.</li> <li>CO4: Apply statistical methods to develop and evaluate the models. • Becoming an expert in decision making for complex projects.</li> </ul>			





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I Year Semester	Subject: Basic Computer Skills	Code: AECC1
After Completion	n of the subject student should able to	
<b>CO 1:</b> Gain a basi	c understanding of computer hardware a	nd software.
CO 2: Achieve ba	sic level of competency in programming	and logic skills.
CO 3: Understand	the various programming paradigms.	C C

# I Year Semester II Subject: Basic Computer Skills Code: AECC2 After Completion of the subject student should able to CO1: Appropriately start up and shut down your computer

**CO2:** Navigate the operating system and start applications

CO3: Perform basic functions of file management

**CO4:** Perform basic functions in a word processor and spreadsheet

**CO5:** Manage print settings and print documents

Subject: Foundation of Digital Marketing	Code: SEC1
 0	

After Completion of the subject student should able to

**CO1:** Communication: Communicate clearly and effectively in both written, oral and digital forms to an intended audience using strategies and methods appropriate to college-level expectations.

**CO2:** Critical Thinking and Problem Solving:

CO3: Leadership and Team Collaboration

**CO4:** Comprehension and Application of New Media

**CO5:** Synthesis and the Foundational Knowledge of Business Disciplines and digital ehthics.





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I Year Semester IIISubject: Web Design & Code: SEC2<br/>AnalyticsAfter Completion of the subject student should able toCO:1 Exploring and learning web design , Understanding Conversion rate<br/>optimization (CRO)CO2: Understanding target audience – Optimization champion.CO3: Additional interface features Using reports Audience reports ,<br/>Acquisition reports Social reports Behavior reports Track events<br/>Conversion reports

# Year Semester ISubject: Social Media MarketingCode: SEC3After Completion of the subject student should able to

**CO1:** Develop social media marketing strategy for achieving organisation goals. **CO2:** Set up, design and monitor the Facebook Pages and Facebook advertising campaigns.

**CO3:** Create, manage and monitor Twitter marketing campaigns.

I Year	Subject: Search Engine Optimization	
Semester I	& Online Advertising	Code: SEC4

After Completion of the subject student should able to

**CO1:**Learn the concept of SEO,on site and off site SEO,importance,ranking factors and search verticles

**CO2:** Learn how to do keyword research for content strategies.

**CO3:** Optimize website structure and code to improve search engine rankings

**CO4:** Analise the content to prevent search engine penalities like keyword stuffing ,increase keyword relevancy and page authority.