SACRED HEART COLLEGE (AUTONOMOUS)

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*Ready for
Everv Good Work*

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Sacred Heart College (Autonomous), Tirupattur District

1.2.1 List of New Courses

BCA

SEMESTER	PART	SUBJECT	L	P	CD
I	I	Tamil Paper – I	5		3
	II	English Paper – I	5		3
	II	Communicative English I			1
	III	Mathematical Foundations – I	6		4
	III	**Problem Solving Techniques Using C**	**4**		**4**
	III	**Web Design Technology**	**4**		**4**
	III	**Practical-I: Web Design Technology and C**		**2**	**2**
	IV	Foundation Course I : Personal Skills	2		1
	IV	Ethics / Religion	2		1
			28	**2**	**23**
II	I	Tamil Paper – II	5		3
	II	English Paper – II	5		3
	II	Communicative English II			1
	III	Mathematical Foundations – II	6		4
	III	**Computer Organization and Architecture**	4		4
	III	**Object Oriented Programming Using C++**	4		4
	III	**Practical-II: Object Oriented Programming Using C++**		2	2
	IV	Foundation Course – II: Social Skills	2		1
	IV	Ethics / Religion	2		1
	PART	SUBJECT	L	P	CD
	III	Data Structures	4		4
	III	Programming Using JAVA	4		3
	III	Operating System	4		4
	III	Financial Accounting I	6		4
	III	Discipline Specific Elective I	4		3

	III	Practical-III : Data Structures Using C++		2	2
	III	Practical-IV : Programming Using JAVA		2	2
	IV	Foundation Course III: Employability Skills – I	2		1
	IV	Environmental Science	2		1
	VI	Certificate Course - I			2#
			26	4	24 + 2#

SEMESTER	PART	SUBJECT	L	P	CD
III	III	**Data Structures**	**4**		**4**
	III	**Programming Using JAVA**	**4**		**3**
	III	**Operating System**	**4**		**4**
	III	Financial Accounting I	6		4
	III	**System Analysis and Design**	**4**		**3**
	III	**Practical-III : Data Structures Using C++**		**2**	**2**
	III	**Practical-IV : Programming Using JAVA**		**2**	**2**
	IV	Foundation Course III: Employability Skills – I	2		1
	IV	Environmental Science	2		1
	VI	**Certificate Course - I**			**2#**
			26	**4**	**24 + 2#**

SEMESTER	PART	SUBJECT	L	P	CD
IV	III	**Software Engineering**	**4**		**4**
	III	**Windows Application Using .NET**	**4**		**3**
	III	**Relational Database Management System**	**4**		**4**
	III	Financial Accounting II	6		4
	III	**Computer Graphics**	**4**		**3**
	III	**Practical-V: Windows Application using .NET**		**2**	**2**
	III	**Practical -VI: Relational Database Management System**		**2**	**2**
	IV	Foundation Course IV: Employability Skills – II	2		1
	IV	Human Rights	2		1
	V	DEEDS			2
	V	SHELTERS			2
	VI	**Certificate Course - II**			**2#**
			26	**4**	**28 + 2#**

SEMESTER	PART	SUBJECT		L	P	CD
				26	4	28 + 2#
V	III	Computer Networks		5		4
	III	E –Commerce		5		4
	III	Enterprise Java Programming		5		4
	III	Web Programming Using PHP		5		4
	III	Self Study Paper I : Industry Interface		-		1*
	III	Practical-VII : Enterprise Java Programming			4	4
	III	Practical-VIII : Web Programming Using PHP			4	4
	IV	Non Major Elective –I : Introduction to Information Technology		2		1
				22	8	25 + 1*
VI	III	Cloud Computing		5		4
	III	Discipline Specific Elective II		4		3
	III	Project Work			6	4
	III	Web Application Using .NET		5		5
	III	R Programming		4		4
	III	Self Study Paper II: Software Documentation		-		1*
	III	Practical-IX : Programming Using .NET and R			4	4
	IV	Non Major Elective – II : Multimedia		2		1
				20	10	25+1*
		TOTAL		180		148 +2*+4#

Allied B.Com (CA)

SEMESTER	PART	SUBJECT	L	P	CD	I	S	TOT
I	III	Office Automation	4		3	30	70	100
	III	Practical -I : Office Automation		2	1	40	60	100
II	III	Web Design Technology	4		3	30	70	100
	III	Practical -II : Web Design Technology		2	1	40	60	100
III	III	Programming with C	4		3	30	70	100
	III	Practical -III: Programming with C		2	1	40	60	100
IV	III	Relational Database Management System	4		3	30	70	100
	III	Practical -IV: Relational Database		2	1	40	60	100

		Management System						
V	III	Computer Organization	4		4	30	70	100
	III	Web Programming Using PHP	4		4	30	70	100
	III	Practical -V: Web Programming Using PHP		2	2	40	60	100
VI	III	Management Information System	4		4	30	70	100
		TOTAL	**28**	**10**	**30**	**410**	**790**	**1200**

Sacred Heart College (Autonomous), Tirupattur District

1.2.1 List of New Courses

Department: BCA

SYLLABUS

Semester III

SYSTEM ANALYSIS AND DESIGN - CA310B

S. No	Course Code	Course Name
1.	CA310B	System Analysis and Design
2.	CA310C	Management and Information System

1. **Learning Objectives**
   - To learn the system development design strategies.
   - To understand structured analysis development methods.
   - To know computer input and output design strategies.
   - To design online dialogue and auxiliary storage devices.
   - To understand the Systems engineering and quality assurance concepts.

2. **Blue Print of the Question Paper**

Section	Unit – I	Unit – II	Unit – III	Unit – IV	Unit – V
Section-A	1-2	3-4	5-6	7-8	9-10
Section-B	11.a)Theory (or) b) Theory	12.a)Theory (or) b) Theory	13.a)Theory (or) b) Theory	14.a)Theory (or) b) Theory	15.a) Theory (or) b) Theory
Section-C	16.Theory	17.Theory	18.Theory	19.Theory	20.Theory

3. **Course Outline**

UNIT – I : INTRODUCTION TO SYSTEM ANALYSIS AND DESIGN
Introduction to Information System Development: System Analysis and design-Business system concepts – Categories of Information systems – System Development Strategies - Managing the application development portfolio.

UNIT – II : SYSTEM REQUIREMENT AND STRATEGIES
Tools for determining system requirement: Requirements determination – Fact finding techniques Tools for documenting procedure and decision. Structured Analysis development strategies: Structured analysis – Developing Data flow diagram. Computer Aided systems tools: Role of tools – Categories of automated tools – CASE Tools – Benefits of CASE.

UNIT – III : DESIGN TRANSITION
The Analysis to design transition: Specifying application requirements – Objectives in designing Information systems – Features - Design of computer output: How to identify computer Output needs – Designing visual Display output. Design of input and control: What concerns guide input design – Capturing data for input – Input validation.

UNIT – IV : DESIGN OF ONLINE DIALOGUE AND AUXILIARY STORAGE DEVICES
Design of online dialogue: Online difference – Interface – Designing dialogue – Dialogue strategy – Data entry dialogues- Design of files and use of auxiliary storage devices: Basic file terminology – Data structure Diagrams – Types of files – Methods of file organization.

UNIT – V : SYSTEMS ENGINEERING AND QUALITY ASSURANCE
Systems engineering and Quality assurance: Design objectives – Program structure charts – Design of software – Managing Quality assurance – Managing testing practices. Managing system implementation: Training Conversion – post Implementation review, Managing information systems development: Estimation and management of development time –Estimation Personnel and development management. Hardware and Software selection: Hardware selection – Software Selection.

4. **Teaching Resources**
   i. Text
   1. James A.Senn, "Analysis and Design of Information Systems", Second Edition, TMH, New Delhi.

Unit – I	:	Ch. 1
Unit – II	:	Ch. 3 – 6
Unit – III	:	Ch. 7 – 9
Unit – IV	:	Ch. 10, 11
Unit – V	:	Ch. 14 – 17

ii. References

1. I.T. Hawryszkiewycz, "Introduction to System Analysis and Design", Third edition, Prentice Hall India, New Delhi.
2. Elias M. Awad, "System Analysis and Design", Second edition, Galgotia Publications (P) Ltd., 1999.

iii. Web References

Online Tutorial
1. www.w3computing.com/systemsanalysis/
2. www.tutoruniverse.com/system-analysis-design-online-tutoring.html

Online Quiz
1. *www.indiabix.com › Engineering › Computer Science*
2. http://withoutbook.com/OnlineTestStart.php?quizId=42

5. **Supplement Learning**
   - Web based Development Design
   - Structured Analysis and Design
   - Temporal Semantic Data Models
   - Financial Information System Design
   - System Security Analysis and Design

6. **Course Outcomes**

   Upon successful completion of this course, the students should be able to:

   - Learn the system development design strategies.
   - Understand structured analysis development methods.
   - Know computer input and output design strategies.
   - Design online dialogue and auxiliary storage devices.
   - Exemplify Systems engineering and quality assurance concepts.
   -

Semester III

MANAGEMENT AND INFORMATION SYSTEM - CA310C

1. **Learning Objectives**
   - To demonstrate effective communication with individuals, teams and large groups.
   - To demonstrate effective analytical and critical thinking skills.
   - To distinguish and analyze ethical problems that occurs in business and society.
   - To apply leadership skills and competencies in business situations.
   - To demonstrate an understanding of the major functional areas of Business.

2. **Blue Print of the Question Paper**

Section	Unit – I	Unit – II	Unit – III	Unit – IV	Unit – V
Section-A	1-2	3-4	5-6	7-8	9-10
Section-B	11.a)Theory (or) b) Theory	12.a)Theory (or) b) Theory	13.a)Theory (or) b) Theory	14.a)Theory (or) b) Theory	15.a) Theory (or) b) Theory
Section-C	16.Theory	17.Theory	18.Theory	19.Theory	20.Theory

3. **Course Outline**

UNIT-I: INFORMATION AND SYSTEM CONCEPTS
Information : A definition - Types of information – Dimension of information – System : a definition - Kinds of System – System related concepts - Elements of a System -   Human as an Information Processing system -   Information System for competitive advantages: introduction - changing concept - competitive advantages - Information System Strategies for dealing with competitive force - Porters value chain model - Strategic Information System(SIS).

UNIT-II: MANAGEMENT INFORMATION SYSTEMS
A frame work - Importance of MIS - Management Information System: A Concept - MIS: A definition - Nature and Scope of MIS - Structure and Classification of MIS: Structure of MIS - MIS classification.

 UNIT-III: ERP AND DECISION SUPPORT SYSTEMS
Business Application: E-commerce: Introduction- E-commerce - Decision Support Systems: Decision Making: A Concept - Simon's Model of Decision Making - Types of Decisions Decision System Support System - Characteristic and Capabilities of DSS.

UNIT-IV: INFORMATION SYSTEM PLANNING
Information System Planning - Planning Terminology - Information System Planning - The Nolan Stage Model - Four stage Model of Planning - Selection a methodology - Information Resource Management -Acquisition : Acquisition of Information system - Acquisition of Hardware and Software.

UNIT-V: SYSTEM IMPLEMENTATION
Implementation process - Organizational Change - IS Security and Control: IS Security Threats - Protecting Information System - IS Security Technology - The Disaster Recovery Plan.

4. **Teaching Resources**
  i. Text
     1. DP Goyal, "Management Information Systems: Managerial Perspective", 3rd Edition, Macmillan Publishers India Ltd, 2010.

Unit-I	:	**Ch. 3, 4.**
Unit-II	:	**Ch. 1, 2.**

Unit-III	:	**Ch. 9, 10.**
Unit-IV	:	**Ch. 12, 13.**
Unit-V	:	**Ch. 14, 16.**

ii. References

1. Uma G. Gupta, "Management Information Systems Managerial Perspective", Macmillan Publishers India Ltd, 2002.

2. P.T.Joseph, S.J and Sanjay Mohapatra, "Management Information Systems in Knowledge Economy", PHI Leaning Private Ltd, 2009.

iii. Web references

Online Tutorial
1. http://www.openlearningworld.com/innerpages/Fundamentals%20of%20MIS.htm
2. https://www.tutorialspoint.com/management_information_system/index.htm

Online Quiz
1. http://highered.mheducation.com/sites/0073376752/student_view0/chapter1/multiple_choice_quiz.html

5. Supplement Learning
- Enterprise Architecture
- System Analysis and Design
- E-Business Strategy Architecture and Design
- Interface Design
- Networks and Communications

6. Course Outcomes
Upon successful completion of this subject students should be able to:

- Use analytical and reflective skills in decision making.
- Communicate effectively both orally and in writing.
- Recognize legal and ethical issues confronting them.
- Contribute to the performance of a group within a business setting.
- Develop, control, and manage projects.