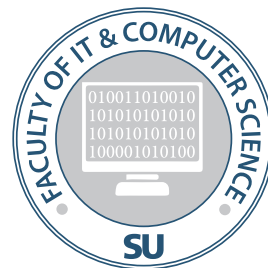


FACULTY OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE




SU KANTARA
SINAI UNIVERSITY



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DEAN'S MESSAGE

The world is now experiencing tremendous technological developments in all areas and aspects of life through the effects of the communications and information technology revolution, that have not been witnessed by the world before. The computers represent the beating heart of this revolution, and the communications means occupies its arteries and nerves that permits the flow of information with very high speeds.

Therefore, Sinai University has been keen to have among its priorities the establishment of the faculty of information technology and computer science in the Kantara branch. The objective is to qualify specialized technical cadres from its graduates to participate in contributing to this rapid development. This objective is achieved by providing experts in all areas of information technology, computer science, information systems, decision-making support, electronic commerce and the other emerged technological specializations.

The Faculty of Information Technology and Computer Science at Sinai University seeks to raise the level and efficiency of its graduates to meet the changing needs of the labor market locally and globally. This is achieved through the application of clear educational policies in order to develop the students' skills. Among these policies, the application of practical ideas and research projects, a continuous improvement of the educational curricula, attract distinguished faculty staff, and establish an educational environment that helps the student to be innovative and creative.





VISION

Achieving a world class excellence in education, learning, and research in the fields of information technology, computer science, and software engineering.



MISSION

Providing an environment that enhances creativity, innovation, and knowledge creation educating the next generation of IT professionals and leaders who contribute to the digital transformation and the economic prosperity of the Egyptian society.



Programs

Departments

Faculty of Information Technology and Computer Science has three academic departments: Information Technology (IT), Computer Science and Software Engineering (CSSE), and, Information and decision Support Systems (IDSS). CSSE tends to be relatively broad and with an emphasis on the underlying science aspects. While IDSS is essentially concerned with computing and information in an organizational context, typically in businesses. IT focuses on computing infrastructure and needs of individual users; tends to involve a study of system.

Information Technology Program

Credit Hours: 144

Program Objectives

The field of Information Technology (IT) is a multi-faceted one with exciting job

prospects. By choosing the IT program, you will be able to achieve excellence in the design and implementation of computer networks, web development, and multi-media systems.

You will also gain industry recognized experience in industry known certifications such as Cisco's CCNA. Practical hands-on experiments in our modern labs are used to illustrate the application of theory and concepts

Program Outcomes

Knowledge and Understanding: On completion of this program the student will be able to:

- a1. Comprehend the components of multimedia systems, computer and communication networks, mobile communication systems, pattern recognition systems, cryptography and network security systems
- a2. Demonstrate an understanding of the fundamental concepts related to the

design and development of web-based and Internet-based systems.

a3. Explain the various issues of quality, reliability, and human factors related to the broad context of IT systems and their use in various domains.

a4. Demonstrate an understanding of the fundamental concepts, tools, and techniques used for processing various multimedia information.

Cognitive skills: On completion of this program the student will be able to:

b1. Apply analytical skills to the solution of computer-based problems.

b2. Select from an extensive range of computer-based, mathematical and analytical methods as appropriate to solve particular design or developmental problems.

b3. Select appropriate software and/or hardware components or processes in order to satisfy particular sets of requirements and objective constraints

b4. Engage effectively in tasks requiring initial problem identification and to effectively apply relevant fundamental principles and techniques appropriate to the analysis and solution of a range of technical problems.

Practical skills: On completion of the program the student will be able to:

c1. Apply sound principles to the construction and maintenance of computer-based systems.

c2. Evaluate the efficiency and effectiveness of IT solutions using appropriate techniques.

c3. Develop and analyze IT solutions using appropriate tools and techniques.

c4. Evaluate IT systems in terms of general quality attributes and possible tradeoffs presented within the given case.

General and Transferable Skills: On completion of this program the student will be able to:

d1. Work effectively both autonomously in independent project-oriented activity, and co-operatively as a member of a group or project-team and manage time and other resources.

d2. Communicate effectively and explain complex technical information, concepts, arguments, design, information effectively, using a variety of media, and wide range of methods appropriate to a given type of audience or communication objective.

d3. Edit and review a professional report or document and design its storage, distribution and retention standards.

Computer Science and Software Engineering Program (CSSE)

Credit Hours: 144 Program Objectives

The CSSE program aims to equip students with knowledge of the foundations of computer science and the skills necessary to apply their discipline to real-world problems. You will find many of our courses provide a diverse and engaging approach to teaching and learning, including project-based activities in all years, invited speakers and access to leading edge technologies in a range of dedicated labs throughout the campus.

Program Outcomes

Knowledge and Understanding: On completion of this program the student will have knowledge and understanding of:

- a1. A range of underlying theories relevant to computer science.
- a2. The process of systems development.
- a3. The interaction between technology and society, and the role of computer professionals within this.
- a4. A range of specialized topics within Computer Science.

Cognitive skills: On completion of this program the student will be able to:

- b1. Apply analytical skills to the solution of computer-based problems.
- b2. Critically evaluate computer-based solutions using a range of techniques.
- b3. Construct abstract representations through the use of appropriate analysis and modeling techniques.
- b4. Apply design principles to practical problems.

Practical skills: On completion of the program the student will be able to:

- c1. Apply sound principles to the construction and maintenance of computer-related artifacts.
- c2. Verify and validate computer-based systems.
- c3. Apply appropriate theories to the design and evaluation of systems.
- c4. Adapt and apply their knowledge and skills to mastering new technical areas.

General and Transferable Skills: On completion of this program the student will be able to:

- d1. Work effectively as a member of a software development team.
- d2. Communicate effectively in a variety of modes, including mathematics where appropriate.
- d3. Learn independently in a variety of situations, making use of available resources

Information and Decision Support Systems Program (IDSS)

Credit Hours: 144

Program Objectives

The program's objectives are underpinned by the following: key principles of business information systems; the importance of information in all modern organizations and the strategic value of information systems within a global business context; the pivotal role of information and communication technologies in information systems,

and the key role of people in designing, managing and using these systems. The program aims to provide students with an understanding of the advantages of

aligning information systems with different organizational and business goals, and with various strategic and operational activities. Students will learn how to use

a range of technical skills and methods, both for managing data, and for developing information systems, in response to different business problems and to different needs. The program aims to promote independent learning and continuous professional development amongst its graduates. Graduates of the program will be equipped with the professional and employability skills that will enable them

to pursue a successful future career in this field.

Program Outcomes

- Knowledge and Understanding: On completion of this program the student will have knowledge and understanding of:

a1. How businesses work in a global environment; how business processes and functions are supported by information systems, and the roles and responsibilities of people within organizations.

a2. The impact of current and emerging information and communication technologies on the development and management of information systems.

a3. The alignment of business strategies and information systems strategies; how information systems support decision-making, and their strategic importance for business intelligence.

a4. The respective capabilities and uses of different information systems across a

wide range of organizational and business contexts, and the criteria for evaluating the success of such systems.

a5. The social, environmental, professional, legal and ethical issues related to

the design, management and use of information systems.

Cognitive skills: On completion of this program the student will be able to:

b1. Apply analytical skills to the solution of computer-based Information Systems.

b2. Demonstrate analytical and critical thinking skills in solving business problems and approaching research problems.

b3. Use research skills and appropriate research methodologies successfully, and be able to synthesize and evaluate information from a variety of sources.

b4. Apply mathematical and numeracy skills appropriate to the development and deployment of business information systems.

Practical skills: On completion of the program the student will be able to:

c1. Apply a range of technical skills in information management and systems development in various business environments.

c2. Use appropriate methods, techniques and tools for generating information systems in response to specific business problems, and according to specific needs and requirements.

c3. Select, use and critically evaluate appropriate methods and techniques at each stage of the system development lifecycle.

c4. Critically assess the feasibility and risks of business information systems development in relation to different domains, organizational needs and project management practices.

C5. Plan, manage and report on, complex projects related to the development of business information systems.

General and Transferable Skills:

On completion of this program the student will be able to:

d1. Work effectively as a member of an information system development team.

d2. Communicate effectively in a range of settings, and to different stakeholders, through writing and oral presentations

d3. Demonstrate appropriate management and team-working skills, including decision-making, participating in projects, working in multi-disciplinary teams and responding to diverse stakeholder requirements

d4. Demonstrate the ability of the independent learning and continuous professional development.

Career Opportunities

B. Sc. Degree in computing opens the door to a career in computing wherever data, systems, digital, mobile or network systems are involved. Some graduates may progress onto master and doctorate programs. While others may prefer to have jobs with governmental agencies or companies.

Below are just a few examples of the types of jobs that you could pursue after graduating with us:

Applications Developer

As an applications developer your role

will include writing specifications and designing, building, testing, implementing and sometimes supporting applications using computer languages and development tools. You may also specialize in a specific development environment, such as computer games or e-commerce, and will have in-depth knowledge of a few relevant computer languages.

ICT Manager

The role of the ICT manager is to ensure that information technology resources are aligned with the organization's mission, corporate goals, and the corporate strategic plan. Your role will include developing, maintaining, facilitating and implementing information frameworks in line with a corporate ICT strategy, supporting policies and defining standards associated with information management.

Network Engineer

A network engineer is responsible for installing, maintaining and supporting computer communication networks within an organization or between organizations. Your role will be to ensure the smooth operation of communication networks in order to provide maximum performance and availability for users (for example, staff, clients, customers or suppliers).

Software Engineer

Software engineers research, design, test, implement and maintain software systems to meet client or employer needs. In this role you will use a variety of computer programming languages and applications, working in real and virtual teams with other IT professionals, or alone.

Systems Developer

Systems developers test systems, diagnose

and fix faults, write diagnostic programs, and design and write code for operating systems and software to ensure that they function more efficiently. In this role you may also create systems in response to technical specifications supplied by an

IT analyst, often integrating off-the-shelf software packages into existing systems.

Training Opportunities

Faculty of Information Technology and Computer Science encourages students to apply for summer training when they are in the third year. Although this is not obligatory, students are supported in terms of the searching for a placement, preparation of CVs, interview technique and similar things.

Facilities

FIT offers excellent learning resources. The central library of SU acquires many up-to-date books and journals. The audiovisual section has a considerable amount of learning resources. The policy of the library is to avail all the materials required by students either in printed form or in a

digital one observing the IPR law. Moreover, it offers Internet access for on-line search and access to the Egyptian Knowledge Bank (EKB)

In addition to this there are three up-to-date labs dedicated for the students of FIT. Each lab can host up to 30 students.

Halls and teaching classes are shared between faculties. It is worth to mention that all the labs, halls, and teaching classes are equipped with data show, PC, sound



Courses

General Requirements (12 Credit Hours) : 6 credit hours Compulsory, 6 credit hours electives

1 - Compulsory courses (6 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
Hu 111	Composition + Technical Writing	3	-	3	No Prerequisite	15	25	-	60	100	3
Hu 110	English Language	2	2	3	No Prerequisite	15	25	-	60	100	2
Total		5	2	6							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

2- Elective courses (6 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
Hu 100	Sinai History	2	0	0	No Prerequisite	15	25	-	60	100	3
Hu 213	Creative Thinking	3	0	3	No Prerequisite	15	25	-	60	100	3
Hu 212	Reading & Presentation Skills	2	0	2	No Prerequisite	15	25	-	60	100	3
Hu 230	Communication Skills	1	0	1	No Prerequisite	15	25	-	60	100	3
Hu 120	Ethical + Professional Issues	1	0	1	No Prerequisite	15	25	-	60	100	3
ISD 110	Introduction to Management	3	0	3	No Prerequisite	15	25	-	60	100	3
ISD 111	Introduction to Economics	3	0	3	No Prerequisite	15	25	-	60	100	3
Total		15	0	15							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Basic Computing Sciences (Faculty Requirements 72 Credit Hours) : 66 credit hours Compulsory, 6 credit hours electives

1 - Compulsory courses (66 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 110	Introduction to Computer & Internet Technology	2	2	3	No Prerequisite	5	25	10	60	100	3
ISD 100	Introduction to Systems & Informatics	2	2	3	No Prerequisite	15	25	-	60	100	3
ISD 220	Introduction to Operations Research	3	2	4	Ma 110 Linear Algebra St 120 Statistics & Probability	15	25	-	60	100	3
Ma 110	Linear Algebra	2	2	3	No Prerequisite	15	25	-	60	100	3
Ma 111	Calculus	3	2	4	No Prerequisite	15	25	-	60	100	3
Ma 212	Discrete Mathematics	3	2	4	Ma 110 Linear Algebra	15	25	-	60	100	3
St 120	Statistics & Probability	3	2	4	No Prerequisite	15	25	-	60	100	3
CSW 121	Logic Design	2	2	3	INT 110 Introduction to Electronics	15	25	-	60	100	3
INT 110	Introduction to Electronics	2	2	3	No Prerequisite	5	25	10	60	100	3
CSW 232	Computer Programming (1)	3	2	4	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 221	Data Structure	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 242	Operating Systems (1)	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
CSW 241	File Organization & Processing	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 263	Software Engineering	2	2	3	CSW 232 Computer Programming (1)	15	25	-	60	100	3
CSW 234	Computer Programming (2)	3	2	4	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 225	Computer Architecture	2	2	3	CSW 110 Introduction to Computer & Internet Technology CSW 121 Logic Design	15	25	-	60	100	3
CSW 325	Parallel Processing	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
INT 353	Multimedia	2	2	3	CSW 225 Computer Architecture	5	25	10	60	100	3
CSW 351	Artificial Intelligence	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 323	Operating Systems (2)	2	2	3	CSW 242 Operating Systems (1)	15	25	-	60	100	3
Total		46	40	66							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

2- Elective courses (6 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 232	Computer Network	2	2	3	Ma 110 Linear Algebra	15	25	-	60	100	3
ISD 330	Project Management	2	2	3	ISD 100 Introduction to Systems & Informatics	15	25	-	60	100	3
ISD 242	Database Systems	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 326	Compiler	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
ISD 340	Data Mining	2	2	3	ISD 242 Database System	5	25	10	60	100	3
ISD 331	Queuing theory	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 321	Modeling & Simulation	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
Total		14	14	21							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Requirements courses for Information Technology Specialization (60 Credit Hours) : 45 credit hours Compulsory, 15 credit hours electives

1- Compulsory courses (45 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 330	Data Communication	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
INT 421	Digital Signal Processing	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
INT 422	Pattern Recognitions	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
INT 423	Image Processing	2	2	3	Ma 110 Linear Algebra	5	25	10	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
INT 434	Network Operations & Administration	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 433	Broadband Network & Communication	2	2	3	INT 232 Computer Network INT 330 Data Communication	15	25	-	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
INT 453	Digital Multimedia	2	2	3	INT 353 Multimedia	5	25	10	60	100	3
INT 461	Information Engineering	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 489	Selected Topics in IT	2	2	3	No Prerequisite	15	25	-	60	100	3
INT 437	Wireless & Mobile Networks	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 435	Information & Networks Security	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 498	IT Project (1)	2	2	3	No Prerequisite	40	-	-	60	100	-
INT 499	IT Project (2)	2	2	3	No Prerequisite	40	-	-	60	100	-
Total		30	30	45							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

2- Elective courses (15 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 343	Website Design & Implementation	2	2	3	INT 341 Web Technology CSW 338 Programming for WWW	15	25	-	60	100	3
INT 338	Network - Based Multimedia	2	2	3	INT 353 Multi Media INT 232 Computer Network	15	25	-	60	100	3
CSW 337	Web client side Programming	2	2	3	CSW 234 Computer Programming (2)	15	25	-	60	100	3
CSW 338	Programming for WWW	2	2	3	CSW 234 Computer Programming (2)	15	25	-	60	100	3
INT 349	WDT Project	2	2	3	No Prerequisite	5	25	10	60	100	3
ISD 331	Queuing theory	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 321	Modeling & Simulation	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 425	Network Optimization	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
Total		16	16	24							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Requirements courses for computer science & Software Engineering Specialization (60 Credit Hours) : 45 credit hours Compulsory, 15 credit hours electives

1- Compulsory courses (45 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 461	Software Eng. Approach to Human Interaction	2	2	3	CSW 362 Software Construction	15	25	-	60	100	3
CSW 462	Software Design & Architecture	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
CSW 466	Formal Methods in Software Eng.	2	2	3	CSW 462 Software Design & Architecture	5	25	10	60	100	3
CSW 465	Software Quality Assurance & Testing	2	2	3	CSW 464 Software Eng. (2)	15	25	-	60	100	3
CSW 463	Software Process & Management	2	2	3	CSW 468 Software Requirement Analysis						
					CSW 465 Software Quality Assurance & Testing	15	25	-	60	100	3
CSW 468	Software Requirement Analysis	2	2	3	CSW 462 Software Design & Architecture	15	25	-	60	100	3
CSW 362	Software Construction	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
CSW 464	Software Eng. (2)	2	2	3	CSW 463 Software Process & Management	15	25	-	60	100	3
INT 435	Information & Network Security	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
CSW 489	Selected Topics in SW Eng.	2	2	3	No Prerequisite	15	25	-	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 467	Design Architecture of large SW Systems	2	2	3	CSW 234 Computer Programming (2) INT 232 Computer Network	15	25	-	60	100	3
CSW 498	SW/ENG Project (1)	2	2	3	No Prerequisite	15	25	-	60	100	3
CSW 499	SW/ENG Proj. (2)	2	2	3	No Prerequisite	15	25	-	60	100	3
Total		30	30	45							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

2- Elective courses (15 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
ISD 342	Database System (2)	2	2	3	ISD 242 Database System	5	25	10	60	100	3
ISD 442	Database Design	2	2	3	ISD 242 Database System	5	25	10	60	100	3
CSW 433	Concept of Computer Programming	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
ISD 351	Information System Fundamentals	2	2	3	ISD 242 Database System CSW 263 Software Engineering	15	25	-	60	100	3
ISD 352	Information System Analysis & Design	2	2	3	ISD 100 Introduction to Systems & Informatics	15	25	-	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
ISD 321	Modeling & Simulation	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
INT 461	Information Engineering	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
Total		16	16	24							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Requirements courses for Information and Decision Support Systems Specialization (60 Credit Hours) : 45 credit hours Compulsory, 15 credit hours electives

1- Compulsory courses (45 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 351	Artificial Intelligence	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
ISD 330	Project Management	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 321	Modeling & Simulation	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 331	Queuing theory	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
ISD 342	Database System (2)	2	2	3	ISD 242 Database System (1)	15	25	10	60	100	3
ISD 440	Data Mining	2	2	3	ISD 242 Database System (1)	15	25	10	60	100	3
ISD 442	Database Design	2	2	3	ISD 242 Database System (1)	15	25	10	60	100	3
ISD 498	ISD Project (1)	2	2	3	Passing 95 credit hours	15	25	10	60	100	3
ISD 351	Information Systems Fundamentals	2	2	3	ISD 242 Database System	15	25	10	60	100	3
ISD 352	Information Systems Analysis & Design	3	2	3	ISD 100 Introduction to Systems & Informatics	15	25	10	60	100	3
ISD 358	e- Business System Fundamentals	2	2	3	ISD 220 Introduction to Operation Research	15	25	10	60	100	3
ISD 489	Selected Topic in ISD	2	2	3	No Prerequisite	15	25	10	60	100	3
ISD	ISD Project (2)	2	2	3	ISD Project (1)	15	25	10	60	100	3
ISD	Web Design for E-commerce	2	2	3	INT 341 Web Technology	15	25	10	60	100	3
Total		30	30	45							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

2- Elective courses (15 credit hours)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 325	Parallel Processing	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
INT 353	Multimedia	2	2	3	CSW 225 Computer Architecture	5	25	10	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
INT 343	Website Design & Implementation	2	2	3	INT 341 Web Technology CSW 338 Programming for WWW	15	25	-	60	100	3
CSW 337	Web client side Programming	2	2	3	CSW 234 Computer Programming(2)	15	25	-	60	100	3
ISD 358	e-Business System Fundamentals	2	2	3	INT 341 Web Technology	15	25	-	60	100	3
CSW 338	Programming for WWW	2	2	3	CSW 234 Computer Programming (2)	15	25	-	60	100	3
INT 339E	Digital Enterprise Project	2	2	3	Prerequisite	5	25	10	60	100	3
Total		16	16	24							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam



Study plan

Information Technology Program

Time Table Courses Plan for Information Technology

Level (1)

First Semester (1/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
Hu 100	Sinai History	2	0	0	No Prerequisite	15	25	-	60	100	3
Hu 110	English Language	2	2	3	No Prerequisite	15	25	-	60	100	2
CSW 110	Introduction to Computer & Internet Technology	2	2	3	No Prerequisite	5	25	10	60	100	3
St 120	Statistics & Probability	3	2	4	No Prerequisite	15	25	-	60	100	3
Ma 111	Calculus	3	2	4	No Prerequisite	15	25	-	60	100	3
INT 110	Introduction to Electronics	2	2	3	No Prerequisite	5	25	10	60	100	3
Total		14	10	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (1)

Second Semester (1/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
ISD 100	Introduction to Systems & Informatics	2	2	3	No Prerequisite	15	25	-	60	100	3
CSW 232	Computer Programming (1)	3	2	4	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 121	Logic Design	2	2	3		15	25	-	60	100	3
Hu 230	Communication Skills	1	0	1	No Prerequisite	15	25	-	60	100	3
Ma 110	Linear Algebra	2	2	3	No Prerequisite	15	25	-	60	100	3
Hu 111	Composition + Technical Writing	3	-	3		15	25	-	60	100	3
Total		13	8	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

First Semester (2/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 221	Data Structure	2	2	3	Ma 110 Linear Algebra	5	25	10	60	100	3
CSW 241	File Organization & Processing	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 263	Software Engineering	2	2	3	CSW 232 Computer Programming (1)	15	25	-	60	100	3
CSW 234	Computer Programming (2)	3	2	4	CSW 232 Computer Programming (1)	5	25	10	60	100	3
Ma 212	Discrete Mathematics	3	2	4	Ma 110 Linear Algebra	15	25	-	60	100	3
Hu 213	Creative Thinking	3	0	3	No Prerequisite	15	25	-	60	100	3
Total		15	10	20							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

Second Semester (2/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 242	Operating Systems (1)	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
ISD 220	Introduction to Operations Research	3	2	4	Ma 110 Linear Algebra St 120 Statistics & Probability	15	25	-	60	100	3
INT 232	Computer Network	2	2	3	Ma 110 Linear Algebra	15	25	-	60	100	3
Hu 212	Reading & Presentation Skills	2	0	2	No Prerequisite	15	25	-	60	100	3
ISD 242	Database System	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 225	Computer Architecture	2	2	3	CSW 110 Introduction to Computer & Internet Technology CSW 121 Logic Design	15	25	-	60	100	3
Total		13	10	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

First Semester (3/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 325	Parallel Processing	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
INT 353	Multimedia	2	2	3	CSW 225 Computer Architecture	5	25	10	60	100	3
CSW 351	Artificial Intelligence	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 323	Operating Systems (2)	2	2	3	CSW 242 Operating Systems (1)	15	25	-	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

Second Semester (3/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
	Elective Courses	2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
INT 330	Data Communication	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (4)

First Semester (4/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 421	Digital Signal Processing	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
INT 422	Pattern Recognitions	2	2	3	Ma 110 Linear Algebra Ma 111 Calculus	15	25	-	60	100	3
INT 423	Image Processing	2	2	3	Ma 110 Linear Algebra	5	25	10	60	100	3
INT 453	Digital Multimedia	2	2	3	INT 353 Multimedia	5	25	10	60	100	3
INT 461	Information Engineering	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 498	IT Project (1)	2	2	3	No Prerequisite	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (4)

Second Semester (4/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 434	Network Operations & Administration	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 435	Information & Networks Security	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 433	Broadband Network & Communication	2	2	3	INT 232 Computer Network INT 330 Data Communication	15	25	-	60	100	3
INT 437	Wireless & Mobile Network	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
INT 489	Selected Topics in IT	2	2	3	No Prerequisite	15	25	-	60	100	3
INT 499	IT Project (2)	2	2	3	No Prerequisite	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Computer science & Software Engineering Program

Time Table Courses Plan for Computer science & Software engineering

Level (1)

First Semester (1/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
Hu 100	Sinai History	2	0	0	No Prerequisite	15	25	-	60	100	3
Hu 110	English Language	2	2	3	No Prerequisite	15	25	-	60	100	2
CSW 110	Introduction to Computer & Internet Technology	2	2	3	No Prerequisite	5	25	10	60	100	3
St 120	Statistics & Probability	3	2	4	No Prerequisite	15	25	-	60	100	3
Ma 111	Calculus	3	2	4	No Prerequisite	15	25	-	60	100	3
INT 110	Introduction to Electronics	2	2	3	No Prerequisite	5	25	10	60	100	3
Total		14	10	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (1)

Second Semester (1/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
ISD 100	Introduction to Systems & Informatics	2	2	3	No Prerequisite	15	25	-	60	100	3
CSW 232	Computer Programming (1)	3	2	4	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 121	Logic Design	2	2	3	INT 110 Introduction to Electronics	15	25	-	60	100	3
Hu 230	Communication Skills	1	0	1	No Prerequisite	15	25	-	60	100	3
Ma 110	Linear Algebra	2	2	3	No Prerequisite	15	25	-	60	100	3
Hu 111	Composition + Technical Writing	3	-	3	No Prerequisite	15	25	-	60	100	3
Total		13	8	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

First Semester (2/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 221	Data Structure	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 241	File Organization & Processing	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 263	Software Engineering	2	2	3	CSW 232 Computer Programming (1)	15	25	-	60	100	3
CSW 234	Computer Programming (2)	3	2	4	CSW 232 Computer Programming (1)	5	25	10	60	100	3
Ma 212	Discrete Mathematics	3	2	4	Ma 110 Linear Algebra	15	25	-	60	100	3
Hu 213	Creative Thinking	3	0	3	No Prerequisite	15	25	-	60	100	3
Total		15	10	20							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

Second Semester (2/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 242	Operating Systems (1)	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
ISD 220	Introduction to Operations Research	3	2	4	CSW 110 Introduction to Computer & Internet Technology	15	25	-	60	100	3
INT 232	Computer Network	2	2	3	Ma 110 Linear Algebra ISD 100 Introduction to Systems & Informatics	15	25	-	60	100	3
Hu 212	Reading & Presentation Skills	2	0	2	No Prerequisite	15	25	-	60	100	3
ISD 242	Database System	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 225	Computer Architecture	2	2	3	CSW 110 Introduction to Computer & Internet Technology CSW 121 Logic Design	15	25	-	60	100	3
Total		13	10	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

First Semester (3/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 325	Parallel Processing	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
INT 353	Multimedia	2	2	3	CSW 225 Computer Architecture	5	25	10	60	100	3
CSW 351	Artificial Intelligence	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 323	Operating Systems (2)	2	2	3	CSW 242 Operating Systems (1)	15	25	-	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

Second Semester (3/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
	Elective Courses	2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
CSW 362	Software Construction	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (4)

First Semester (4/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 433	Concept of Computer Programming	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
CSW 461	Software Eng. Approach to Human Interaction	2	2	3	CSW 362 Software Construction	15	25	-	60	100	3
CSW 464	Software Eng. (2)	2	2	3	CSW 463 Software Process & Management	15	25	-	60	100	3
CSW 462	Software Design & Architecture	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
CSW 466	Formal Methods in Software Eng.	2	2	3	CSW 462 Software Design & Architecture	5	25	10	60	100	3
CSW 498	SW/ENG Project (1)	0	6	3	No Prerequisite	15	25	-	60	100	3
Total		10	16	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (4)

Second Semester (4/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
INT 435	Information & Network Security	2	2	3	INT 232 Computer Network	15	25	-	60	100	3
CSW 467	Design Architecture of large SW Systems	2	2	3	NT 232 Computer Network	15	25	-	60	100	3
CSW 465	Software Quality Assurance & Testing	2	2	3	CSW 464 Software Eng. (2)	15	25	-	60	100	3
CSW 463	Software Process & Management	2	2	3	CSW 464 Software Eng. (2)	15	25	-	60	100	3
CSW 468	Software Requirement Analysis	2	2	3	CSW 462 Software Design & Architecture	15	25	-	60	100	3
CSW 499	SW/ENG Proj (2)	2	2	3	No Prerequisite	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Information and Decision Support Systems

Time Table Courses Plan for Information and Decision Support Systems

Level (1)

First Semester (1/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
Hu 100	Sinai History	2	0	0	No Prerequisite	15	25	-	60	100	3
Hu 110	English Language	2	2	3	No Prerequisite	15	25	-	60	100	2
CSW 110	Introduction to Computer & Internet Technology	2	2	3	No Prerequisite	5	25	10	60	100	3
St 120	Statistics & Probability	3	2	4	No Prerequisite	15	25	-	60	100	3
Ma 111	Calculus	3	2	4	No Prerequisite	15	25	-	60	100	3
INT 110	Introduction to Electronics	2	2	3	No Prerequisite	5	25	10	60	100	3
Total		12	10	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (1)

Second Semester (1/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
ISD 100	Introduction to Systems & Informatics	2	2	3	No Prerequisite	15	25	-	60	100	3
CSW 232	Computer Programming (1)	3	2	4	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
CSW 121	Logic Design	2	2	3	INT 110 Introduction to Electronics	15	25	-	60	100	3
Hu 230	Communication Skills	1	0	1	No Prerequisite	15	25	-	60	100	3
Ma 110	Linear Algebra	2	2	3	No Prerequisite	15	25	-	60	100	3
Hu 111	Composition + Technical Writing	3	-	3	No Prerequisite	15	25	-	60	100	3
Total		13	8	17							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

First Semester (2/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 221	Data Structure	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 241	File Organization & Processing	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 263	Software Engineering	2	2	3	CSW 232 Computer Programming (1)	15	25	-	60	100	3
CSW 234	Computer Programming (2)	3	2	4	CSW 232 Computer Programming (1)	5	25	10	60	100	3
Ma 212	Discrete Mathematics	3	2	4	Ma 110 Linear Algebra	15	25	-	60	100	3
Hu 213	Creative Thinking	3	0	3	No Prerequisite	15	25	-	60	100	3
Total		15	10	20							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (2)

Second Semester (2/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 242	Operating Systems (1)	2	2	3	CSW 241 File Organization & Processing	15	25	-	60	100	3
ISD 220	Introduction to Operations Research	3	2	4	CSW 110 Introduction to Computer & Internet Technology	15	25	-	60	100	3
INT 232	Computer Network	2	2	3	Ma 110 Linear Algebra ISD 100 Introduction to Systems & Informatics	15	25	-	60	100	3
Hu 212	Reading & Presentation Skills	2	0	2	No Prerequisite	15	25	-	60	100	3
ISD 242	Database System	2	2	3	CSW 221 Data Structure	5	25	10	60	100	3
CSW 225	Computer Architecture	2	2	3	CSW 110 Introduction to Computer & Internet Technology CSW 121 Logic Design	15	25	-	60	100	3
Total		13	10	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

First Semester (3/1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
CSW 325	Parallel Processing	2	2	3	CSW 225 Computer Architecture	15	25	-	60	100	3
INT 353	Multimedia	2	2	3	CSW 225 Computer Architecture	5	25	10	60	100	3
CSW 351	Artificial Intelligence	2	2	3	CSW 232 Computer Programming (1)	5	25	10	60	100	3
CSW 323	Operating Systems (2)	2	2	3	CSW 242 Operating Systems (1)	15	25	-	60	100	3
INT 341	Web Technology	2	2	3	CSW 110 Introduction to Computer & Internet Technology	5	25	10	60	100	3
INT 351	Computer Graphics	2	2	3	CSW 234 Computer Programming (2)	5	25	10	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (3)

Second Semester (3/2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*				Total. marks	Exam Time (hrs)
		L	P/T	Total		CW	T.E	Oral/p	F.E		
	Elective Courses	2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
		2	2	3		15	25	-	60	100	3
ISD 330	Project Management	2	2	3	ISD 220 Introduction to Operations Research	15	25	-	60	100	3
Total		12	12	18							

L= lecture, P/T= practical/tutorial, CW= Course work, T.E =Term exams, F.E =Final exam

Level (4)

First Semester (4/1)

Course code	Course Title	Credit hours				Prerequisite	Examination Marks*				Exam Time (hrs)
		L	P	T	Total		CW	Oral/p	F.E	Total marks	
ISD 421	Modeling & Simulation	2	0	2	3	ISD 220 Introduction to Operations Research	40	-	60	100	3
ISD 431	Queuing theory	2	0	2	3	ISD 220 Introduction to Operations Research	40	-	60	100	3
ISD 442	Database System (2)	2	0	2	3	ISD 242 Database System	40	-	60	100	3
ISD 440	Data Mining	2	0	2	3	No Prerequisite	40	-	60	100	3
ISD 442	Database Design	2	0	2	3	No Prerequisite	40	-	60	100	3
ISD 448	ISD Project (1)	2	0	2	3	No Prerequisite	40	-	60	100	3
Total		12	0	12	18						

L= lecture, P= practical, T=tutorial, CW= Course work, T.E =Term exams, F.E =Final

Level (4)




Second Semester (4/2)

Course code	Course Title	Credit hours				Prerequisite	Examination Marks*				Exam Time (hrs)
		L	P	T	Total		CW	Oral/p	F.E	Total marks	
ISD 451	Information Systems Fundamentals	2	0	2	3	ISD 242 Database System	40	-	60	100	3
ISD 452	Information Systems Analysis & Design	3	0	2	3	ISD 100 Introduction to Systems & Informatics	40	-	60	100	3
ISD 458	e-Business System Fundamentals	2	0	2	3	ISD 220 Introduction to Operations Research	40	-	60	100	3
ISD 425	Network Optimization	2	0	2	3	INT 232 Computer Network	40	-	60	100	3
ISD 4223	Selected Topic in ISD	2	0	2	3	No Prerequisite	40	-	60	100	3
ISD 4215	ISD Project (2)	2	0	2	3	No Prerequisite	40	-	60	100	3
Total		13	0	12	18						

L= lecture, P= practical, T=tutorial, CW= Course work, T.E =Term exams, F.E =Final

YOUR LIFE...
YOUR DECISION



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