

<b>1. Teaching Institution</b>	University of Technology Bahrain
<b>2. University Department</b>	College of Administrative and Financial Sciences (CAFS)
<b>3. Programme Title</b>	Bachelor of Science in Business Informatics (BSBI)
<b>4. Title of Final Award</b>	Bachelor of Science in Business Informatics (BSBI)
<b>5. Modes of Attendance offered</b>	Actual classroom learning-interactive
<b>6. Accreditation</b>	European Council for Business Education (ECBE)
<b>7. Other External influences</b>	<p><b>Local External Influences/References</b>          Ministry of Education(MOE), Higher Education Council (HEC) National Education and Training Quality Authority (BQA)          Bahrain National Qualifications Framework (NQF)</p> <p><b>International External Influences/References</b>          European Council for Business Education Standards (ECBE)          ACM/AIS Curriculum Guidelines          QAA-UK Subject Benchmark Statement: Computing 2019          QAA-UK Subject Benchmark Statement for General Business and Management 2019</p>
<b>8. Date of Production/ Revision of Specification</b>	September 1, 2021
<b>9. Aims of the Programme</b>	
<p>The Bachelor of Science in Business Informatics (BSBI) programme provides in-depth knowledge and skills required to understand, analyze, evaluate, implement, use, and manage information systems in organizations. It produces graduates with solid business background who understand the role of information technology in improving efficiency and effectiveness of operations in organizations and who develop and execute the capability of providing IT solutions to meet specific business needs.</p> <p>Programme Educational Objectives:</p> <p>Graduates of the programme, three (3) to five (5) years after graduation, shall be able to:</p> <ol style="list-style-type: none"> <li>1. Possess expertise in systems thinking in order to use, choose, develop, and manage information and communications technology (ICT) solutions which enable enterprise development and business process improvement and innovation.</li> <li>2. Engage in productive careers in business informatics areas of expertise while being a responsive member of a business organization and society with awareness of professional ethics, responsibilities, values and standard.</li> <li>3. Equip with business and technology knowledge and skills to pursue further professional development and higher studies.</li> </ol>	

### 10. Learning Outcomes, Teaching, Learning and Assessment Methods

Upon successful completion of the programme, the student will be able to:

1. Demonstrate advanced knowledge and skills in the practical and logical foundations of informatics and the business functional areas and their processes.
2. Demonstrate critical knowledge and understanding of the different information systems in business organizations, their concepts, principles, frameworks, models, design and development tools, requirements, methodologies, and standards.
3. Use advanced and some specialist level skills to develop and design information systems and adapt suitable business applications for management decision making and in meeting business needs.
4. Use a range of approaches to critically analyze, evaluate, and synthesize data and information in formulating solutions to business problems and issues.
5. Utilize specialist-level skills in dealing with complex business situations and problems through IT projects, research, and in benchmarking organizational best practices in improving and innovate business processes, operations, and organizational systems.
6. Apply a range of approaches to critically analyze and evaluate information systems and applications and business models to identify, define, and interpret situations and implement relevant solutions.
7. Communicate clearly, effectively, and successfully with peers, colleagues, and specialists in conveying and presenting complex information, ideas, and projects with the use of appropriate tools, techniques, and technology.
8. Operate and function effectively as an individual or member/leader of a team or organization with the value of recognizing the need for responsibility and engagement in life-long learning; and promote ethical and professional behavior in organizations and society.

### Teaching and Learning Methods

- Lecture-Discussion. This is used primarily to identify and explain key concepts of the course to guide, explain and facilitate discussions rather than transmit factual material which can be obtained from the recommended textbooks and reference materials through independent learning.
- Case Analysis/Case Study. Examples include case study and presentation, analyzing problems and situations to solve applying the theories, concepts, and principles learned in class, and independent learning.
- Self-directed Learning. This allows students to engage with the course materials and learning is facilitated by directed reading, study guides and online materials available in the e-learning site.
- Simulation/Demonstration. Instructional scenarios where the learner is placed in a "world" defined by the teacher. They represent a reality within which students interact. The teacher controls the parameters of this "world" and uses it to achieve the desired instructional results.
- Direct and Indirect Instruction. Students are provided with machine problems and hands-on laboratory and practical Exercises where they work either independently or in teams.
- Individual or group activity and dynamics. Students are given the chance to work alone or in a group, where they are provided with in-class activities and supervised by their professor.

**Assessment Methods**

- Adequate number of assessments is done independently for each course. Variety of assessment tools will be used to assess student performance and achievement of intended learning outcomes including but not limited to: major exam, tests, assignments, quizzes, case study and analysis, in-course project and presentations, including the terminal capstone project.

**11. Programme Structure**

**BACHELOR OF SCIENCE IN BUSINESS INFORMATICS (BSBI)**  
CURRICULUM PLAN EFFECTIVE SY2021-2022

**REMEDIAL CLASSES**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
MATH300	Remedial Mathematics	3	0	0	
ENGL301	Speaking and listening	9	0	0	
ENGL302	Grammar and Vocabulary	9	0	0	
<b>Total Units</b>				0	

**FIRST YEAR ATTENDANCE**
**FIRST TRIMESTER**

Course Code	Course Title	Lec	Lab	Uni	Pre-Requisites
ENGL401	English Communication Skills1	3	0	3	
HIST400	History of Bahrain and the GCC Region	3	0	3	
MATH401	College Algebra	3	0	3	
SOCI400	Sociology	3	0	3	
BUSI615	Principles of Management	3	0	3	
COMP613	Fundamentals of Information Systems	3	0	3	
EUTH400	Euthenics 1	1	0	0	
<b>Total Units</b>				<b>18</b>	

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### SECOND TRIMESTER

Course Code	Course Title	Lec	Lab	Unit	Pre-Requisites
ENGL402	English Communication Skills 2	3	0	3	ENGL401
BUSI621	Organizational Behavior	3	0	3	BUSI615
BUSI622	Financial Accounting 1	2	2	3	
BUSI633	Microeconomics	3	0	3	
BSBI625	Principles of Banking and Finance	3	0	3	
COMP623	Business Information Systems	2	2	3	
EUTH401	Euthenics 2	1	0	0	EUTH400
<b>Total Units</b>				<b>18</b>	

### THIRD TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
ARAB400	Arabic Language	3	0	3	
ENGL403	Speech and Oral Communication	3	0	3	ENGL402
HUMR400	Human Rights	3	0	3	SOCI400
BUSI631	Principles of Marketing	3	0	3	
BUSI632	Human Resource Management	3	0	3	BUSI621
BUSI713	Macroeconomics	3	0	3	BUSI713
<b>Total Units</b>				<b>18</b>	

### SECOND YEAR ATTENDANCE

#### FIRST TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
ENGL502	Technical Writing	3	0	3	ENGL403
MATH403	Business Statistics	3	0	3	MATH401
BUSI711	Managerial Accounting 1	3	0	3	BUSI622
BSBI711	Bahrain Business Environment & Cross-Cultural Management	3	0	3	BUSI713
COMP711	Introduction to E-Commerce	3	0	3	COMP613
COMP712	Computer Programming 1	2	2	3	
<b>Total Units</b>				<b>18</b>	

**SECOND TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
ENVM400	Environmental Management	3	0	3	
BUSI721	Quantitative Methods	3	0	3	MATH403
BUSI712	Mathematics of Investment	3	0	3	MATH401
COMP721	Database Management Systems	2	2	3	COMP613
COMP722	Human-Computer Interaction	3	0	3	COMP613
COMP723	Computer Programming 2	2	2	3	COMP712
<b>Total Units</b>				<b>18</b>	

**THIRD TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI731	Research Methods	3	0	3	MATH403
BSBI732	Technopreneurship	3	0	3	BUSI631
BSBI733	Financial Management	3	0	3	BUSI712
COMP731	Systems Analysis and Design 1	2	2	3	COMP721
COMP732	IT Infrastructure	3	0	3	COMP613
COMP733	Mobile Application Development	2	2	3	COMP723
<b>Total Units</b>				<b>18</b>	

**THIRD YEAR ATTENDANCE**
**FIRST TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BUSI811	Islamic Banking and Finance 1	3	0	3	BSBI625
BSBI812	Business Process Management	2	2	3	COMP721
BSBI813	Bahrain Business Law and Taxation	3	0	3	BSBI711
COMP811	Systems Analysis and Design 2	2	2	3	COMP731
COMP812	IS Strategy, Acquisition and Management	3	0	3	COMP732
BSBI814	Elective 1	3	0	3	
<b>Total Units</b>				<b>18</b>	

**SECOND TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI821	Operations Management	3	0	3	BUSI721
COMP821	Information Management, Security, and Support	3	0	3	COMP732
COMP822	Web Design and Development	2	2	3	COMP811
COMP823	Project Management	2	2	3	COMP812

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COMP824	Data Mining & Warehousing	2	2	3	COMP721
COMP825	FinTech	2	2	3	BUSI811
<b>Total Units</b>				<b>18</b>	

### THIRD TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI831	Digital Marketing	2	2	3	BUSI713
BSBI832	Business Planning	3	0	3	BSBI712
BSBI833	BSBI Capstone Project A	3	0	3	Graduating Status & Completed IT Courses
BUSI831	Business Analytics	2	2	3	BUSI721
COMP832	Enterprise Systems Management and Applications	2	2	3	COMP732
COMP833	Elective 2	2	2	3	
<b>Total Units</b>				<b>18</b>	

### FOURTH YEAR ATTENDANCE

#### FIRST TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI841	Business Ethics	3	0	3	BUSI721
BSBI842	Business Informatics Internship	0	12	6	Graduating
BSBI843	BSBI Capstone Project B	3	0	3	BSBI833
COMP841	Cloud Computing	2	2	3	COMP821
COMP842	Elective 3	3	0	3	
<b>Total Units</b>				<b>18</b>	

**ELECTIVE COURSES**

Course Code	Course Codes	Course Title	Lec	Lab	Units	Pre-requisites
<b>Electives 1 &amp; 2:</b> (Any two (2) courses from informatics)		<b>Informatics</b>				
	COMP833A	Open Source	2	2	3	
	COMP833B	Multimedia	2	2	3	
	COMP842A	Computing	3	0	3	
	COMP842B	Accounting	2	2	3	
<b>Elective 3 :</b> (Any course from		<b>Business</b>				
	BSBI814A	Business	3	0	3	
	BSBI814B	Strategic	3	0	3	
	BSBI814C	Supply Chain	3	0	3	

Awards and Credits	
<b>Degree/ Certificate Awarded</b>	Bachelor's Degree
<b>Total Units for Degree</b>	180
<b>Total Trimesters Completed</b>	10
<b>13. Development Planning</b>	
1. Periodic in-house trainings and peer mentoring related to subjectspecialization. 2. Attendance of faculty members to local and international conferences, seminars and trainings related to their fields of specialization. 3. Support faculty members to conduct research projects and publish research outputs aligned to college research thrusts and priorities. 4. Establish partnerships and linkages where research collaborations can be made.	
<b>14. Admission Criteria</b>	

**Admissions Criteria for Undergraduate Students**
**A. For First Year Undergraduate Applicants**

Acceptance to the University depends on the following admissions requirements:

1. Completely filled out an admission application form.
2. Minimum secondary school scores 60% or its equivalent.
3. UTB Placement Test (Oxford Online Placement Test (OOPT)) result.
4. Submission of all required documents stated in the Admissions Policy.

To be admitted to any undergraduate programme, the applicant must satisfy the minimum secondary school grades or its equivalent without the need to take the UTB placement test and remediation classes of English, and Math, as shown in the following table:

<b>Subtest Component for Bahraini, KSA, Kuwait, Qatar, Yemen, Switzerland, USA, and Ecuador Qualification</b>		<b>Programme</b>			
		<i>Engineering Studies</i>	<i>Computer Science Studies</i>	<i>Business Informatics</i>	<i>International Business</i>
<b>Mathematics</b>	Science/ Technical/General Track	At least 70% or C	At least 70% or C	At least 70% or C	At least 60% or D
	Commercial and Literature Tracks	At least 80% or B	At least 80% or B	At least 80% or B	At least 60% or D
<b>Science</b>		60	60	60	N/A
<b>English</b>		At least 80 or	At least 80 or	At least 80 or	At least 80 or B



<b>Subtest Component for Other Qualification (Indian, Pakistan, and West African)</b>		<b>Programme</b>			
		<i>Engineering Studies</i>	<i>Computer Science Studies</i>	<i>Business Informatics</i>	<i>Internati onal Busine</i>
Mathematics	Science/ Technical/General Track	At least 51 or C1	At least 51 or C1	At least 51 or C1	At least 41 C2
	Commercial and Literature Tracks	At least 71 or B1	At least 71 or B1	At least 71 or B1	At least 41 C2
Science		60	60	60	N/A
English		At least 71 or B1	At least 71 or B1	At least 71 or B1	At least 71 B1

For the undergraduate applicant who did not meet the minimum required secondary school grades in Mathematics, Science and English or its equivalent, his/her admissions depends on the following criteria:

Programme	Secondary School Grade	Placement Test in English (OOPT)	Remarks
All Programmes	60-79 % grade in English	Score $\geq$ 55 %	No need for remediation in English
		Score < 55 %	Remediation in English
Engineering, Computer Science, Business Informatics	For Commercial Track: Score 60-79% in Math For Scientific and technical Track: Score 60-69% in Math	N/A	Remediation in Math

	For Science score <60%	N/A	Tutorial class in general sciences
International Business	Score <60% in Math	N/A	Remediation in Math
All Programmes	CGPA < 60% for Bahraini and KSA CGPA < 41% for Indian and Pakistan	N/A	Will be subjected to 5% admission rule of UTB (As explained under note)

\*This is applicable to Bahraini and similarly equivalent qualification

a. Secondary Grade in English

A qualified applicant for all programmes whose secondary school grade in English is within 60-79%, needs to take the placement test in English (OOPT). If the OOPT test result is 55 (60) or above, applicant will not take remediation course in English. However, if the result is lower than 55%, applicant will take remediation course in English.

b. TOEFL/IELTS

Qualified applicant who attain the score of at least 500 (173 CBT, 61 iBT) for TOEFL, or with a score of 5.5 for IELTS, is exempted to sit the required English placement test.

c. Secondary Grade in Math

A qualified applicant for Engineering, Computer Science or Business Informatics programme who has a secondary grade score in Math of 60-79% for commercial track and 60-69% for scientific and technical tracks and lower than 60% for the International Business programme has to take the remediation course in Math.

Note: UTB can accept new students equivalent to 5% of the total enrollment where student applicant has a CGPA below 60% but not lower than 50% from Bahraini Schools; below 41% but not lower than 33% from Indian and Pakistan Schools; and for other non-Bahrain based Schools, it will be based on the passing mark of the school. The 5% is subject to strict evaluation by the dean and the applicant's score in the OOPT and the secondary school grades.

## d. Secondary Grade in Science

A qualified applicant for Engineering, Computer Science or Business Informatics programme who has a secondary grade score in science of lower than 60% has to take tutorial class in general science before taking any university-level science course.

**15. Key Resources of information about the programme**

1. Included in the College Catalogue
2. Uploaded on the UTB website

**16. Skills Map**

Year/ Level	Course Code	Course Title	Core (C) / Option (O)	Program Intended Learning Outcomes								
				Knowledge & Understanding		Subject Specific Skills			Thinki ng Skills		General & Transfer able Skills	
				PILO 1	PILO 2	PILO 3	PILO 4	PILO 5	PILO 6	PIL O 7	PILO 8	
Year 1 1st Tri	ENGL401	English Communication Skills 1	(C)	CIL01	CIL02			CIL 04 CIL 05			CIL 03  CIL 06	CIL 07 CIL 08
	HIST400	History of Bahrain and the GCC	(C)									CIL 07 CIL 08
	MATH401	College Algebra	(C)	CIL01	CIL02	CIL03	CIL04 CIL0	CIL05			CIL 06	CIL08

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							7				
	SOCI400	Sociology	(C)								CILO7 CILO8
	BUSI615	Principles of Management	(C)	CILO1	CILO2	CILO 4	CILO 3		CILO 5	CIL O6	CIL O7 CIL O8
	COMP613	Fundamentals of Information Systems	(C)	CILO1	CI LO 2 CI LO 3	CILO 7	CILO 4	CILO 6	CILO 5		CILO8
	EUTH400	Euthenics 1	(C)	CILO1	CILO2	CILO 3		CILO 5	CILO 6	CIL O7	CILO8
	ENGL402	English Communication	(C)	CI LO 1 CI LO 2	CI LO 3 CI LO 4	CILO 5	CILO 6		CILO 7		CILO8



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	BUSI632	Resource Management	(C)		CILO1	CILO 2 CILO 3		CILO 4		CILO 5 CILO 6	CILO6 CILO8
	BUSI713	Macroeconomics	(C)	CILO1 CILO2		CILO 3			CILO 4 CILO 5 CILO 6	CILO 7	CILO8
<b>Year 2 1st Tri</b>	ENGL502	Technical Writing	(C)	CILO1	CILO3 CILO4				CILO 6 CILO 7	CILO 2 CILO 5	CILO8
	MATH403	Business Statistics	(C)	CILO1	CILO5	CILO 2 CILO 3	CILO 4		CILO 6 CILO 7		CILO8
	BUSI711	Managerial Accounting 1	(C)	CILO 1 CILO 2			CILO 3 CILO 4	CILO 5		CILO 6 CILO 7	CILO8
	BSBI711	Bahrain Business Environment & Cross-Cultural	(C)	CILO 1 CILO 2		CILO 7		CILO 3 CILO 4	CIL O5 CIL O6		CILO8

		Management									
	COMP711	Intro to e-Commerce	(C)	CILO1		CILO2 CILO3 CILO4				CILO6	CILO7 CILO8
	COMP712	Computer Programming 1	(C)	CILO1	CILO2	CILO3 CILO4		CILO5	CIL06	CILO7	CILO8
Year 2 2nd Tri	ENVM400	Environmental Management	(C)	CILO1	CILO2 CILO7				CIL04 CIL05	CILO3 CILO6	CILO8
	BUSI721	Quantitative Methods for Management	(C)	CILO1				CILO3 CILO4	CILO5 CILO6		CILO7 CILO8
	BUSI712	Mathematics of Investment	(C)	CILO1 CILO2				CILO3 CILO4	CILO5, CILO6, CILO7		CILO8
	COMP721	Database Management Systems	(C)	CILO1		CILO2	CILO3 CILO4	CILO5	CILO6	CILO7	CILO8
	COMP722	Human-Computer Interaction	(C)	CILO1 CILO2	CILO3		CILO4	CILO5 CILO6			CILO7 CILO8
			Computer						CILO2 CI		

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	COMP723	Programming 2	(C)	CILO1		CILO 4		LO 3 CILO 5	CILO 6		CILO8
Year 2 3rd Tri	BSBI731	Research Methods	(C)		CILO1 CILO3	CILO 2 CILO 6	CILO 4		CILO 5	CILO 7	CILO8
	BSBI732	Technopreneurs hip	(C)	CILO1 CILO2					CILO 3, CILO 4 CILO 5	CILO 6 CILO 7	CILO8
	BSBI733	Financial Management	(C)		CILO1 CILO2	CILO 3 CILO 4 CILO 8		CILO 5 CILO 6			CILO7
	COMP731	Systems Analysis and Design 1	(C)		CILO1 CILO3	CILO 2	CILO 4	CILO 6	CILO 2 CILO 5	CILO 7	CILO8
	COMP732	IT Infrastructure	(C)	CILO1 CILO2 CILO5	CILO3		CILO 4	CILO 6		CILO 8	
	COMP733	Mobile Application Development	(C)	CILO1	CILO2	CILO 3 CILO 6			CILO 4	CILO 7	CILO8



Year 3 1st Tri	BUSI811	Islamic Banking and Finance 1	(C)	CILO1	CILO5	CILO 2		C3 CILO 7		C4 CILO 6	CILO8
	BSBI812	Business Process Management	(C)	CILO1	CILO2	CILO 3	CILO 4		CILO 5	CILO 6	CILO7 CILO8
	BSBI813	Bahrain Business Law and Taxation	(C)	CILO1	CILO2	CILO 3	CILO 4 CILO 6	CILO 7	CILO 5		CILO8
	COMP811	Systems Analysis and Design 2	(C)	CILO1		CILO 3		CILO 6	CILO 2 CILO 7	CILO 4 CILO 5	CILO8
	COMP812	IS Strategy, Acquisition and Management	(C)	CILO1	CILO2	CILO 3		CILO 5 CILO 7	CILO 4 CILO 6		CILO8
	BSBI814	Elective 1									
Year 3 2nd Tri	BSBI821	Operations Management	(C)	CILO1		CILO 3		CILO 2	CILO 6 CILO 7	CILO 5	CILO4 CILO8
	COMP821	Information Security, Support, and Resource Management	(C)	CILO1		CILO 4 CILO 5	CILO 3		CILO 2 CILO 6		CILO7 CILO8
	COMP822	Web Design and Development	(C)	CILO1	CILO2	CILO 3	CI LO 4 CI LO 5 CILO 6	CILO 7			CILO8
	COMP823	Project Management	(C)	CILO1		CILO 3 CILO 4		CILO 6	CILO 5		CILO7 CILO8
	COMP824	Data Mining and Warehousing	(C)	CILO1	CILO2	CILO	CILO 4	CILO	CILO		CILO8

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						3	7	5	6		
	COMP825	FinTech	(C)	CILO1	CILO2 CILO4	CILO 3	CILO 6	CILO 8	CILO 5		CILO7
<b>Year 3 3rd Tri</b>	BSBI831	Digital Marketing	(C)		CILO1 CILO2	CILO 3	CILO 4	CILO 5 CILO 6	CILO 6	CILO 7 CILO 8	CILO7 CILO8
	BSBI832	Business Planning	(C)	CILO1	CILO2	CILO 5 CILO 6			CILO 4	CILO 3	CILO7 CILO8
	BSBI833	BSBI Capstone Project A	(C)	CILO1	CILO2	CILO 4		CILO 5 CILO 6	CILO 3		CILO7 CILO8
	BUSI831	Business Analytics	(C)	CILO1 CILO2		CILO 3 CILO 5	CILO 4	CILO 6		CILO 7	CILO8
		Enterprise		CILO1	CILO2 CILO4	CILO 3 CILO 6	CILO 5	CILO 7			CILO8

	COMP832	Systems Management and Applications	(C)								
	COMP833	Elective 2	(C)								
	BSBI841	Business Ethics	(C)	CILO1	CILO2	CILO6			CILO5	CILO3 CILO4	CILO7 CILO8
	BSBI842	Business Informatics Internship	(C)	CILO1	CILO1 CILO2	CILO1 CILO2	CILO4	CILO3 CILO4	CILO3	CILO7 CILO8	CILO8
	BSBI843	BSBI Capstone Project B	(C)	CILO1		CILO2 CILO3 CILO4 CILO5	CILO2 CILO4	CILO5	CILO6	CILO7	CILO8
	COMP841	Cloud Computing	(C)	CILO1	CILO1 CILO3	CILO2	CILO5		CILO6	CILO7 CILO8	CILO8
	BSBI841	Elective 3	(C)								
		Open Source Software	(O)	CILO1	CILO2	CILO4	CILO3 CILO5		CILO7	CILO7 CILO8	CILO8
	<b>Elective</b>	Multimedia Development	(O)	CILO1		CILO	CILO		CILO	CILO	CILO8

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Courses					3	4		6	7	
						CI LO 5			CI LO 8	
Computing Trends	(O)		CILO1	CILO2		CI LO 4 CI LO 5		CILO7	CILO8	
Accounting Information Systems	(O)		CI LO 1 CI LO 2	CILO3		CILO5	CI LO 4 CI LO 6	CI LO 7 CI LO 8	CI L O 7 CI L O 8	
Business Innovation	(O)	CILO1		CILO2	CI LO 3 CI LO 4	CI LO 5 CI LO 6			CI L O 7 CI L O 8	
Strategic Management	(O)	CI LO 1 CI LO 2		CI L O 3 CI L O 4	CILO4	CILO6		CI LO 7 CI LO 8	CILO8	
Supply Chain Management	(O)	CILO1		CI L O 2 CI L O 3		CI LO 4 CI LO 5	CILO6		CI L O 7 CI L O 8	

**Course Description**

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL401	English Communication Skills 1	3	0	3
<p>This course provides comprehensive, up-to-date and relevant instruction in English grammar, and usage guidelines necessary for business students to succeed in their career. Communication skills are emphasized so students will be able to communicate thoughts, ideas, information, and messages in speaking and writing. Students will also be actively involved in learning how to improve sentence construction. This course is built upon a framework of concepts that help the students become proficient in English. The integration of language skills is to increase their communicative competence and to prepare them for the academic and social challenges in college.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
MATH401	College Algebra	3	0	3
<p>The course is designed to familiarize learners with college algebra concepts that are useful in analysis and simplification of mathematical problems. Content includes algebraic, exponential and logarithmic functions, applications of matrices and geometric progressions as applied to computer science and engineering.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI615	Principles of Management	3	0	3
<p>This course focuses on concepts and ideas of organizational behavior and the various functions and activities of the manager through global perspectives. Topics include the following: planning, organizing, leading, controlling and decision-making.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP613	Fundamentals of Information Systems	3	0	3
<p>This course covers information as an organizational resource. It focuses primarily on the organizational foundation of management information systems by establishing a link between business processes and information technology. It includes the following topics: decision making frameworks, transaction processing systems, decision support systems, inter organizational information systems, office automation, strategic information systems, enterprise systems, systems development, networks and IT</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
EUTH400	Euthenics 1	1	0	0
<p>This course focuses on the discussion of the policies and procedures that are intended to guide each member of UTB community in the performance of his/her role. This is used as a resourceful tool that orients the students with academic and non-academic policies of UTB International University Bahrain. It contains the history, vision / mission and objectives of the institution, the services and academic support available.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL402	English Communication Skills 2	3	0	3

This course aims to equip the students with the skills necessary for a meaningful communication. It aims to improve and expand the students' ability to speak and to write efficiently which are significant tools for the development of their academic life. Further, it includes the steps in the writing process to aid them enhance their ability in writing unified and coherent paragraphs. This course emphasizes on the usage of Standard English to help them speak and write with confidence.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
HIST400	History of Bahrain and the GCC Region	3	0	3

The course deals with the study of the Kingdom of Bahrain and the Arabian Gulf Region. It covers the strategic importance of Bahrain, the Portuguese occupation, the struggle of powers in the 17<sup>th</sup> century, the rise of the Utoub tribe, Bahrain under the British protection, and the withdrawal of the British forces from Bahrain and the Gulf.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
SOCI400	Sociology	3	0	3

This course is an introduction to sociology as a way of understanding the world. Positive human relationships are essential part of civilized society and how people interact with each other is important so that answers to sociological questions and challenges can be readily made available based on acquired knowledge and analytical skills developed in conduct of the course. The way individuals view the world comes from what they learn in their everyday activities which is essential in the study. The key component of this course is to study the interaction of people in the society and with other sociological factors that influence their behavior.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI621	Organizational Behavior	3	0	3

The course takes an in-depth look at human behavior in organizations. Incorporating current management theory and research, the course looks into the factors that influence individual and group performance. Topics include perception, personality, attitudes, values, motivation, decision making, leadership, power and politics, conflict and negotiation, groups and culture.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI622	Financial Accounting	3	0	3

Financial accounting examines accounting concepts, the accounting model, measurement processes, financial statements, financial analysis, monetary and fixed assets, inventory, current and long-term liabilities and equity structures of partnerships, proprietorships and corporations.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI713	Microeconomics	3	0	3

The course presents tools of economic analysis, demand and supply, price discrimination and income distribution in a systematic way which imparts intuitive appreciation of the power and scope of microeconomics. The learners are introduced to the economic realities that a country is facing today along with some statistical tools to understand these broader economic realities. The learners who have no prior exposure to this course will be able to develop understanding of the basic tools, concepts and theories of microeconomics.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI625	Principles of Banking and Finance	3	0	3

The course deals with the overview of the basic concept of money and the financial system, interest rates, financial instruments and financial markets. Specific topics include the following: the structure and operations of commercial banks, central banking and the operation of monetary policy, non-banking institutions and the structure of financial markets, and elements of monetary policy.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP623	Business Information Systems	2	2	3

This course covers the discussion and use of the suite of software tools for knowledge workers. It includes software for word processing, spreadsheets, presentation graphics, electronic mail and internet browsing.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP712	Computer Programming 1	2	2	3

This course covers problem analysis, algorithm design and program implementation. It discusses program design and development using the Java programming language. It includes the discussion of basic data types and their operators, variables, program structure, control flow structure and iteration.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP723	Computer Programming 2	2	2	3

This course provides detailed knowledge in advanced concepts of Java computer programming built on the information gained from the previous Java programming course. It concentrates on methods, arrays, strings, exception handling, Java Applets, Java applications. The laboratory focuses on the development of advanced Java programs and applications.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
EUTH401	Euthenics 2	1	0	0

The course introduces the students to the guidelines on disciplinary actions as regards to violations of the rules and regulations of the University. The students will be taught on the general concepts and principles on values formation, attitudes and personality development. This course will encourage the students to participate in classroom discussion for them to better understand and appreciate acceptable social norms and conduct of an educated individual.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
MATH403	Business Statistics	3	0	3

The course deals with the study of the fundamental concepts and principles in statistics and its application to business. It covers concepts on collecting, organizing and presenting data, numerical descriptive measures, probability distributions, and inferential measures.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ARAB400	Arabic Language	3	0	3

The course aims to study the development of Arabic language, culture and literature. It discusses the historical development of the Arabic language, and compares its main features with those of the English language. It next zeroes in on the fundamental aspects of Arabic culture, encouraging students to reflect on the richness and variety of the Arabic cultural heritage. Finally, it elucidates on the themes and methods of presentation of selected literary works by prominent Arabic writers, such as, among others, the Prophet Mohammed, Abu Al-Aswad, Abdulmallek bin Marwan, Ibn Al-Mukafaa, Sebaweeh, Al Mutanabi, NajeebMahfooz, Taha Hussain, and Mustafa Al-A Aqqaad.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
HUMR400	Human Rights	3	0	3
<p>This course introduces the students to International Human Rights Law and its applications in the legal system. It also provides students with the basic human rights principles and concepts, distinctive characteristics and specialties of International Human Rights Law, regional protection of human rights, major international conventions related to human rights, and methods of institutional monitoring and supervision on human rights.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI712	Mathematics of Investment	3	0	3
<p>The course deals with fundamental concepts, mathematical problems and solutions concerning money transaction associated with interest and time. It integrates practical and theoretical aspects of finance and investments essential for the success of all business disciplines. It also covers simplified discussions regarding the theories and applications of simple and compound interest and simple annuity.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL403	Speech and Oral Communication	3	0	3
<p>This course covers the basic principles of effective speech communication such as pronunciation, articulation, enunciation, intonation and vocal flexibility. It includes theories, mechanics, and techniques of speech composition and delivery with emphasis on practical speaking experiences and awareness of audience psychology that will be used in any varied speech situations.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI631	Principles of Marketing	3	0	3
<p>The course covers concept of making marketing decisions in business in global context. IT Devotes particular attention to analyzing customer needs, segmenting markets, and developing products, promotion, pricing, and distribution strategies. Relationship between consumers, business and government are explored.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI632	Human Resource Management	3	0	3
<p>This course examines the foundations, functions and activities involved in the managing of human resources, striking a balance between current theory and practice. Topics include: manpower planning, recruitment and selection, policy and procedures, performance appraisal, compensation and benefits, training, safety and industrial relations.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI713	Macroeconomics	3	0	3
<p>This course covers the basic tools of macroeconomics and enables students to apply them to real world economic policy. The course includes a broad range of topics about macroeconomic policies, such as fiscal and monetary policies. It also discusses the relationship between inflation and unemployment.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI711	Managerial Accounting 1	3	0	3



This course introduces the principles and concepts underlying managerial accounting. It includes an introduction to management accounting information and cost accounting. It gives students a perspective of how accounting is used as a tool by the management in carrying out its functions of

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP711	Introduction to e-Commerce	3	0	3

The course introduces students to frameworks and models for e-commerce; technologies, security, payment mechanisms and digital money; new market mechanisms; auctions; cookies; access logs and privacy; online communities; cyberplaces; and associated and related social and legal issues.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI711	Bahrain Business Environment & Cross Cultural Management	3	0	3

The course deals with the general business environment in the Kingdom of Bahrain. The course tackles relevant trends and issues on Bahrain business where students can relate and apply the theories learned from the core courses in previous semesters. Moreover, the course discusses the role of different ministries and bodies that regulate and influence the private sector.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENVM400	Environmental Management	3	0	3

This course examines some environmental management aspects of atmospheric resources, energy, transportation, manufacturing and food production in the context of natural resources, human health, and sustainable practices, the impacts of conventional and renewable energy production and consumption on the environment, health, economics and their related management structure. The fundamentals of driving forces that influence different human activities and policies will be analyzed and discussed

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI721	Quantitative Methods	3	0	3

The course provides an introduction to key quantitative techniques currently used in business and management. The course is designed for student to apply quantitative techniques, as well as software applications, in solving business problems and/or in making decisions. Topics include linear programming, forecasting and linear regression, queuing models, and decision network analysis and

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP721	Database Management Systems	2	2	3

This course provides the fundamental topics of database management systems. The topics include introduction to the database theory, models, data normalization, data description languages, data manipulation languages and query design. The course covers creating tables, defining integrity and constraints, data manipulation, data selection techniques, joins, nested queries and views.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP722	Human-Computer Interaction	3	0	3

The course provides an introduction to the field of human-computer interaction (HCI) that integrates cognitive psychology, design, computer science and others. Examining the human factors associated with information systems provides the students with knowledge to understand what influences usability and acceptance of IS. The course examines human performance, components of technology, methods and techniques used in design and evaluation of IS. Societal impacts of HCI such as accessibility are also

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL502	Technical Writing	3	0	3

This course is designed to prepare the students for the communication activities in business and IS jobs. This course presents students with practical information about communicating in different kinds of workplace environments and professional/technical discourse communities. Students produce and analyze a number of common technical writing genres, including emails, letters, reports, proposals, technical descriptions, technical definitions, technical manuals, and proposals. Students work toward understanding how to analyze and react to rhetorical situations each genre and writing situation presents, including issues of audience, organization, visual design, style, and the material production of

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI731	Research Methods	3	0	3

This course covers the principles and methods applicable in doing a business research that will give a solution to a business problem or an enhancement in business operations. It focuses on the systematic collection of data and analysis of information that will result to a meaningful business research.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI732	Technopreneurship	3	0	3

This course deals with the understanding, experiencing, and participating in the entrepreneurial process as provided with the background, tools, and life skills from the generation of creative ideas to the understanding of the market needs and provision of solutions to key problems to the implementation of

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI733	Financial Management	3	0	3

This course introduces business finance, including global aspects; acquisition and use of short-term funds and long-term capital; overview of money and capital market; management of assets, liabilities and capital accounts; financial analysis; cash operations and long-range budgeting; risk and return and cost of capital.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP731	Systems Analysis and Design 1	2	2	3

This course discusses the processes, methods, techniques and tools that organizations use to determine how they should conduct their business with a particular focus on how computer-based technologies can most effectively contribute to the way business is organized. The course covers a systematic methodology for analyzing a business problem or opportunity, computer-based technologies in addressing the business needs, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-part providers or purchased commercial off-the-shelf (COTS) packages. Introduces students to the traditional and modern practices for specification, design, system development, implementation, testing and operation of information systems.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP732	IT Infrastructure and Networking	3	0	3
<p>This course provides an introduction to computer hardware/software and communication networks. It gives the students the knowledge and skills that they need for communicating effectively with professionals whose special focus is on hardware and systems software technology and for designing organizational processes and software solutions that require in-depth understanding of the IT infrastructure capabilities and limitations. It also prepares the students for organizational roles that require interaction with external vendors of IT infrastructure components and solutions. Topics include data communications standards and models, voice and data networks, network security and internet topology, and soft skills development.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP733	Mobile Application Development	2	2	3
<p>This course introduces mobile application development for the Android platform. Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language. Students will learn skills for creating and deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability, and deployment.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI811	Islamic Banking and Finance 1	3	0	3
<p>This course analyzes economic activities based on the economic rationale of Islamic values and Islamic law. It covers topics on economic policies, business strategies and government regulations within the context of Islamic markets. It examines how and why Islamic values determine the business climate. It provides a clear framework for analyzing the micro- and macro-economic foundations of the Islamic system.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI812	Business Process Management	2	2	3

The course focuses on the analysis, design and implementation of business process automation technology including automation suites and service-enabled systems to handle documents and workflow of business processes. The course involves the automated coordination of activities, allocation of tasks to process participants and the integration of applications to achieve significant efficiency gains for

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI813	Bahrain Business Law and Taxation	3	0	3

This course provides an overview of the legal system and regulations that affect the organization's operations, structures and business associations. Topics include the classification and sources of law, types of contracts, legal forms and the regulation of businesses. Legal issues on cybercrimes and e-commerce law will be given emphasis.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP811	System Analysis and Design 2	2	2	3

This course is the continuation of Systems Analysis and Design 1 and leads to the examination of system analysis and design processes. Students will be introduced to comparative development methodologies and modeling tools including project management and cost-benefit analysis; information systems planning and project identification and selection; requirements collection and structuring; process modeling; conceptual and logical data modeling; database design and implementation; design of the human-computer interface ; system implementation; system maintenance and change management. The course will culminate with a major project and presentation which allows the students to develop their interpersonal, conflict resolution, and management skills in a simulated project environment.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP812	IS Strategy, Acquisition, and Management	3	0	3

This course explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates/ supports/ enables various types of organizational capabilities. It takes a senior management perspective in exploring the acquisition, development and implementation of plans and policies to achieve efficient and effective information systems. It addresses issues relating to defining the high-level infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategies. The ideas developed and cultivated in this course are intended to provide an enduring perspective that can help leaders make sense of an

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI821	Operations Management	3	0	3

The course introduces the various operational decisions in manufacturing and services. Topics include practical applications that aim to increase efficiency of operations and quality of output whether in manufacturing or service operations. It focuses on the study of ways to improve productivity in the operation. Concepts on the efficient use of resources particularly man, machine, method and material are discussed and linked with decision-making.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP821	Information Security, Support and Resource Management	3	0	3

This course provides students a thorough and operational knowledge of information security and resource management recognized as a critical area in management and IT issues. It provides a general knowledge of measures to ensure confidentiality, availability and integrity of information systems. Topics include range from hardware software network security, counter measures, and risk management, detection of and reaction to threats to information resources, incident response, and disaster recovery.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP822	Web Design and Development	2	2	3

The course provides students with advanced web design and development techniques, and with the latest in web technologies. Topics include introduction to the Internet, World Wide Web, and other related technologies. Understand the basic foundations and techniques for developing modern and responsive web pages. The course focuses on how to build basic web pages with the appropriate HTML 5, CSS 2, and JavaScript. The paper covers the leading front-end packages for creating web-based pages that are both responsive and interactive (e.g., Bootstrap, jQuery and Angular JS).

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP823	Project Management	2	2	3

This course discusses the processes, methods, techniques and tools that organizations use to manage projects. It covers a systematic methodology for initiating, planning, executing, controlling and closing project. It assumes that project management in the modern organization is a complex team-based activity, where various types of technologies are an inherent part of the project management process. It also acknowledges that project management involves both the use of resources from within the firm, as well as contracted from outside the organization.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP824	Data Warehousing and Data Mining	2	2	3

This course will cover a wide spectrum of industry standard techniques using widely available database and tools packages for knowledge discovery .Data mining is for relatively unstructured data for which more sophisticated techniques are needed. The course aims to cover powerful data mining techniques including clustering, association rules, and classification. It then teaches high volume data processing mechanisms by building warehouse schemas such as snowflake, and star. Online Analytical Processing (OLAP) query retrieval techniques are also introduced.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP825	Fintech	2	2	3

This graduate course will provide an introduction to FinTech such as alternative lending, machine intelligence, and robo-advising. Students are expected to be well versed in financial technology, its origins, and its development. Students will have knowledge and skills necessary to innovate in the FinTech industry. Various aspects of cryptocurrency and blockchain, including but not limited to, blockchain and cryptocurrencies, Bitcoin, Ethereum, Altcoins, smart contracts, decentralized applications, markets for smart contracts, alternative and P2P lending and crowdfunding, machine learning and its applications in FinTech such as robo-advising.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI831	Business Analytics	2	2	3

This course refers to the ways in which enterprises such as businesses, non-profits, and governments can use data to gain insights and develop predictive capabilities using machine learning, data mining and forecasting techniques and ability to use data effectively to drive rapid, precise and profitable decisions for critical strategic advantage. Business analytics is applied in operations, marketing, finance, and strategic planning among other functions. In this course, students will learn to identify, evaluate, and capture business analytic opportunities that create value and learn basic analytic methods and analyze case studies on organizations that successfully deployed these techniques. This will be introduced using

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI831	Digital Marketing	3	0	3

This course focuses on marketing concepts, tools, technologies, and business models to enhance consumer value creation process. Student gains an opportunity to learn an overview of all digital marketing aspects. Topics include overview of digital marketing, online micro- and macro-environments' concepts, digital marketing strategy development, implementing and delivering digital marketing practices.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI832	Business Planning	3	0	3

This course requires students to identify business opportunities and develop their own business plan. It guides students in making key decisions regarding the target market, business model, management team, and legal form of the new venture selected. Students also do basic planning which includes supplementary technologies required, financial resources that can be used, amount of investment required, and growth rate of the venture.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI833	BSBI Capstone Project A	3	0	3

This course integrates and applies theoretical knowledge acquired during the course of the program to a project involving systems documentation and development. The processes start from problem definite onto documentation. Moreover, the course requires project proposal, systems planning and design utilizing various methods and their practical application to business and information technology, particularly in information systems development.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP832	Enterprise Systems Management and Applications	2	2	3

This course explores the design, selection, implementation and management of enterprise IT solutions. It focuses on the applications and infrastructure and their fit with the business. It provides students with the frameworks and strategies for infrastructure management, system administration, data/ information architecture, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. These topics are addressed both within and beyond the organization, with attention paid to managing risk and security within audit and compliance standards.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI841	Business Ethics	3	0	3

This course takes into consideration the plethora of issues raised by the Information Age. It explores a wide range of topics including ethical theories, principles and practices; computer crimes, privacy, freedom of expressions, intellectual property issues, impact of technology in productivity and quality of life, social media ethics, ethical issues of e-business, internet-related business ethics problems, and the ethical dimension of information technology on society. This course critically discusses ethical and legal information that any information technology professional and organizations must take into account in their professional and business activities, and evaluates the decisions in businesses according to ethical and moral concepts and judgments.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI842	Business Informatics Internship	6	0	6

Internship (Practicum) requires students to draw upon multi-disciplinary knowledge and skills acquired from their previous courses. Internship enhances student's skills to an advanced level allowing them to pursue careers as professionals and employees in leadership positions. The students will undertake 240 hours of training in the companies in actual work environment under the guidance of the practicum adviser.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI843	BSBI Capstone Project B	3	0	3

This course enables students to continue the first part of the Capstone Project to develop and implement the project using suitable system development tools and methodologies. The focus of the documentation

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP841	Cloud computing	2	2	3

This course introduces the new computing paradigm of cloud computing. Students will be introduced to core concepts related to cloud computing. The paper will cover: classic data centers, virtualized data centers (VDCs), business continuity in VDCs, cloud infrastructure, cloud services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS), cloud management, cloud security, and cloud migration considerations.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Open Source Software	2	2	3

This course examines the issues associated with open source technologies, with a focus on understanding the implications for businesses that are interested in using them. Through a combination of readings, presentations, discussion and hands-on projects, we will examine the characteristics of key open source technologies (Linux, MySQL, Apache, et al), the nature of open source communities, their development processes, and the evolving structure of the open source industry.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Supply Chain Management	3	0	3

This course covers diverse and include concepts and application in procurement, order fulfillment, inventory management, supplier relationship management, product development and commercialization, returns management, physical distribution and shipping, warehousing, and outsourcing. With the depth and breadth of issues that it encompasses, industries that use SCM tools and approaches include: transportation, hospitals, government organizations, construction, processing, social services, electronics, facility design, manufacturing, and warehousing.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Business Innovation	3	0	3
<p>This course describes how business innovation harness business approaches and resources in promoting economic and social development. The course aims to introduce students to the different ways in which business skills and experience can promote development. It provides a deeper appreciation for the complexities and challenges inherent in businesses. It also examines the practical and ethical limits to business models and challenge prevailing assumptions.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Strategic Management	3	0	3
<p>The course focuses on corporate and divisional policy formulation and implementation. The knowledge and techniques learned in earlier courses will be applied in an integrated fashion to the process of strategic decision making and organizational change. Among the topics considered in the course will be the relationships of organizations to their environments, the hierarchy of organizational objectives, structured as well as informal approaches to strategic planning, the integration of business functions, organizational structure, and policy implementation and evaluation.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Computing Trends	2	2	3
<p>Topics include current or new trends in computing and disruptive technologies in IT (Information Technology) including professional issues, and emerging trends and current topics in business informatics research. Emphasis is given to the way technologies create a competitive edge and generate business value. An example of this is the most-related current computing trend like Internet of Things (IoT) which provides advanced data collection, connectivity, and analysis for machines, connecting everything together for a better future. Other topics include but not limited to block chain technology, nanotechnology, Smart technology, and advanced cloud computing technology.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Multimedia Development	2	2	3
<p>This course explores strategies for creating and integrating multimedia in business. Using equipment and Windows-based software common on many computers; students will apply these tools to web development projects and contents will include copyright/ fair use, image editing, photo editing, audio recording, movie recording, PowerPoint, and Webpage publishing.</p>				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Accounting Information System	2	2	3
<p>This course is designed to present an understanding of accounting information systems and their role in the accounting environment. Particular attention is paid to transaction cycles and internal control structure. Topics to be covered include the software development life cycle, contemporary technology and applications, control concepts and procedures, auditing of information systems, internets, intranets, electronic commerce, and the role of information systems in a business enterprise. This course will cover accounting information systems both computerized and non-computerized—with particular emphasis on internal controls.</p>				