

College: College of Administrative and Financial Sciences

BSBI PROGRAMME SPECIFICATIONS AY2021-2022

Page 1

1. Teaching Institution	University of Technology Bahrain (UTB)
2. University Department	College of Administrative and Financial Sciences
3. Programme Title	Bachelor of Science in Business Informatics (BSBI)
4. Title of Final Award	Bachelor of Science in Business Informatics (BSBI)
5. Attendance Mode	Actual classroom learning-interactive
6. National Qualification Framework Level and Credit	NQF Level 8 540 NQF Credits (180 ACS Credits)
7. Accreditation	European Council for Business Education Standards (ECBE)
8. Other external influences	<p>Local External Influences/References Ministry of Education (MOE), Higher Education Council (HEC) Bahrain Education and Training Quality Authority (BQA)</p> <p>International External Influences/References ACM/AIS Curriculum Guidelines QAA-UK Subject Benchmark Statement: Computing 2019 QAA-UK Subject Benchmark Statement for General Business and Management 2019 Association to Advance Collegiate Schools for Business (AACSB)</p>
9. Date of production/revision of this specification	September 2021
10. Aims of the Programme	
<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>Graduates of the programme, three (3) to five (5) years after graduation, shall be able to:</p> <ol style="list-style-type: none"> 1. Possess expertise in systems thinking in order to develop and manage information and communications technology (ICT) solutions which enable enterprise development and business process improvement and innovation. 2. Engage in business informatics careers and/or be a responsive member of a business organization and society with awareness of professional ethics, responsibilities, values and standards. 3. Transfigure knowledge, understanding and academic skills through postgraduate study and/or continuing professional development. 	
11. Programme Intended Learning Outcomes	
<ol style="list-style-type: none"> 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 organisations, 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 analyse, evaluate, and synthesise data and information in 	

formulating solutions to business problems and issues.

5. Utilise specialist-level skills in dealing with complex business situations and problems through IT projects, research, and in benchmarking organisational best practices in improving and innovate business processes, operations, and organisational systems.
6. Apply a range of approaches to critically analyse 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 organisation with the value of recognising the need for responsibility and engagement in life-long learning; and promote ethical and professional behavior in organisations and society.

Teaching and Learning Methods

1. Constructive Method. Learners must be fully engaged and active in the process of constructing meaning and knowledge based on their prior knowledge and experiences through the process of doing, making, writing, designing, creating, and solving. It allows teachers to implement differentiated learning, authentic assessment practices and incorporate technologies to improve individual learning experiences. It includes simulations, in-course projects, field trips, digital content, group discussions and reflections. This method strives to improve achievement by consciously developing learners' ability to consider ideas, analyze perspectives, solve problems, and make decisions on their own thereby making them more responsible and independent.
2. Inquiry based Method. Learners develop cognitive skills like critical thinking and problem solving by working on questions, problems, or scenarios and formulate creative solutions. The teachers use either structured, guided, or open inquiry to facilitate learning. As a process, learners are involved in their learning by formulating questions, investigating, building their understanding, and creating meaning and new knowledge on a certain lesson. Typical activities include laboratory sessions and research-based activities.
3. Collaborative Method. Learners are divided into small groups to learn something together and capitalize on one's other resources and skills, evaluating one another ideas, and monitoring one another's work. It allows students to actively interact by sharing experiences and take on different roles. Typically, students are provided with problems or projects that they work on together to search for understanding, meaning, or solutions and each group is expected to work together developing or formulating solutions and present the solution in class. The activities include think-pair-share, jigsaw, or round-robin which effectively engage students to complete the tasks.
4. Experiential learning method is the process of learning by doing. By engaging students to hands on experience which attempts to apply theories and knowledge learned in the classroom to real-world situations. This may include team challenges, simulations, company visits/fieldworks and other extracurricular activities. Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad, and culminating experiences such as internships, student teaching, and capstone projects.

Assessment Methods

Assessment is done independently for each course. A variety of assessment tools will be used to assess the achievement of intended learning outcomes including but not limited to exams, assignments, projects, case analysis and presentations. In addition, assessments of learning outcome also include capstone, internship, and indirect assessment.

BSBI PROGRAMME SPECIFICATIONS AY2021-2022
12. Programme Structure
BACHELOR OF SCIENCE IN BUSINESS INFORMATICS (BSBI)

CURRICULUM PLAN EFFECTIVE AY2021-2022

FOUNDATION COURSES

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	
Total Units				0	

FIRST YEAR
FIRST TRIMESTER

Course Code	Course Title	Lec	Lab	Units	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	
Total				18	
Units					

SECOND TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
ENGL402	English Communication Skills 2	3	0	3	ENGL401
BUSI621	Organizational Behavior	3	0	3	
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
Total Units				18	

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

College: College of Administrative and Financial Sciences

BSBI PROGRAMME SPECIFICATIONS AY2021-2022

Page 4

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	BUSI633
Total Units				18	

**SECOND YEAR
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	
COMP711	Introduction to E-Commerce	3	0	3	COMP613
COMP712	Computer Programming1	2	2	3	COMP613
Total Units				18	

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	COMP712
COMP722	Human-Computer Interaction	3	0	3	COMP711
COMP723	Computer Programming 2	2	2	3	COMP712
Total Units				18	

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	BSBI625
COMP731	Systems Analysis and Design 1	2	2	3	COMP721
COMP732	IT Infrastructure	3	0	3	COMP711
COMP733	Mobile Application Development	2	2	3	COMP723
Total Units				18	

THIRD YEAR**FIRST TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BUSI811	Islamic Banking and Finance 1	3	0	3	BSBI733
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	Elective1	3	0	3	3 rd Year Standing
Total Units				18	

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	COMP731
COMP823	Project Management	2	2	3	COMP812
COMP824	Data Mining & Warehousing	2	2	3	COMP721
COMP825	FinTech	3	0	3	BSBI733
Total Units				18	

THIRD TRIMESTER

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI831	Digital Marketing	3	0	3	COMP711
BSBI832	Business Planning	3	0	3	COMP823
BSBI833	BSBI Capstone Project A	3	0	3	COMPLETED 144 Units
BUSI831	Business Analytics	2	2	3	BUSI721, COMP824
COMP832	Enterprise Systems Management and Applications	2	2	3	BSBI812
COMP833	Elective 2	2	2	3	3 rd Year Standing
Total Units				18	

FOURTH YEAR**FIRST TRIMESTER**

Course Code	Course Title	Lec	Lab	Units	Pre-Requisites
BSBI841	Business Ethics	3	0	3	COMP812
BSBI842	Business Informatics Internship	0	12	6	4 th Year Standing
BSBI843	BSBI Capstone Project B	3	0	3	BSBI833
COMP841	Cloud Computing	3	0	3	COMP821

 University of Technology Bahrain	Doc. No.	QR-AAD-01
	Revision No.	01
	Date of Effectivity	01-09-23
College: College of Administrative and Financial Sciences		
BSBI PROGRAMME SPECIFICATIONS AY2021-2022		Page 6

COMP842	Elective 3	3	0	3	3 rd Year Standing
Total Units				18	

ELECTIVES

ELECTIVE COURSES

MAJOR ELECTIVE 1 (Any One Course from Business Component)

COURSE CO DE	COURSE TITLE	CREDI T Units	PREREQUISITE(S)
○	Business Innovation	3	
○	Strategic Management	3	
○	Supply Chain Management	3	

MAJOR ELECTIVE 2 and 3 (Any Two Courses from Informatics Component)

COURSE CO DE	COURSE TITLE	CREDI T Units	PREREQUISITE(S)
○	Multimedia Development	3	
○	Open-Source Software	3	
○	Computing Trends	3	
○	Accounting Information Systems	3	

13. Awards and Credits

Degree/ Certificate Awarded	Bachelor of Science in Business Informatics
Total Units for Degree	180
Total Trimesters Completed	10

14. Admission Criteria

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. Online Placement test (Oxford Online Placement Test (OOPT)) Result (if needed)
4. Submission of all required documents stated in the Admissions Policy.

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

Subtest Component for Bahraini, KSA, Kuwait, Qatar, Yemen, Switzerland, USA, and Ecuador Qualification		BSBI
Mathe matics	Science/ Technical/General Track	At least 70% or C
	Commercial Track	At least 80%

		or B
	Literature and Islamic Tracks	At least 80% or B
Science		60
English		At least 80 or B

Subtest Component for Other Qualification (Indian, Pakistan, and West African)		BSBI
Mathe matics	Science/ Technical/General Track	At least 51 or C1
	Commercial Track	At least 71 or B1
	Literature and Islamic Tracks	At least 71 or B1
Science		60
English		At least 71 or B1

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

Programme	Secondary School Grade	Placement Test in English (OOPT)	Remarks
All Programmes	60-79 % grade in English	Score \geq 51 %	No need for Foundation Course in English
		Score < 51 %	Foundation Course in English
	Literature and Islamic Tracks	N/A	Foundation Course in Math
	Commercial Track: Score 50-79%	N/A	Foundation Course in Math
BSBI	For Commercial Track: Score 50-79% in Math For Scientific,	N/A	Foundation Course in Math

		General, and technical Track: Score 50-69% in Math		
		For Science score <60%	N/A	Tutorial class in general sciences
	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

- 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 51 or above, applicant will not take remediation course in English. However, if the result is lower than 51, applicant will take remediation course in English.

- TOEFL/IELTS

Qualified applicant who attains the score of at least 450 (paper based) or 131.

(computer - based) for TOEFL, or with a score of 5.0 for IELTS, is exempted to sit the required English placement test.

- Secondary Grade in Math

A qualified applicant for BSME, BSEnE, BSIT, BSBI, and BSAF programmes who has a secondary grade score in Math of 50-79% for commercial track and 50-69% for scientific and technical tracks and lower than 60% for the BSIB programme must take the remediation course in Math. All qualified applicants for BSCS and BSIE programmes coming from the literature and Islamic tracks must take the remediation course in Math.

- Secondary Grade in Science

A qualified applicant for BSME, BSIE, BSEnE, BSCS, BSIT, BSBI, and BSAF programmes who has a secondary grade score in science of lower than 60% must take tutorial class in general science before taking any university-level science course.

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

 University of Technology Bahrain	Doc. No.	QR-AAD-01
	Revision No.	01
	Date of Effectivity	01-09-23
College: College of Administrative and Financial Sciences		
BSBI PROGRAMME SPECIFICATIONS AY2021-2022		Page 9

in the OOPT and the secondary school grades.

B. For Undergraduate Transfer Student Applicants

Application Requirements:

1. Completely filled out an admission application form
2. Official Transcript of Records (TOR) from the university previously attended. Rules and regulations of the HEC-Bahrain regarding the authentication of foreign certificates and private school certificates are to be applied when necessary.
3. Course description of all completed courses for which transfer credit is sought (authenticated by the originating university)
4. Certificate of Transfer from the university previously attended stamped by MOE, if any.
5. Withdrawal Certificate stamped by MOE
6. Submission of all required documents stated in the admissions policy.

Admissions Requirements:

1. For Bahrain and KSA qualifications, the applicant should have at least a secondary school average of 60%. For non-Bahrain secondary qualifications (Indian and Pakistan) the applicant should have at least 41% secondary school average; and for other non-Bahraini qualifications please refer to the table of cut-off.
2. If the applicant has taken and passed courses in English and Mathematics in the previous university, the applicant will be exempted in taking the remedial courses in both English and Mathematics. The applicant may proceed to mainstream university courses and is eligible to apply for credit transfer.
3. If the applicant has not taken any course in English and Mathematics, the basis for evaluation whether remedial course in English and mathematics is required or not is the subject scores in his/her last year in the secondary school certificate using the table presented earlier.

The transfer of course credits is accepted at UTB provided that courses applied for crediting are equivalent to the courses where credit will be transferred. Practicum (Internship) course is eligible for credit transfer with the same practicum (internship) course from another university or re-admitted student from UTB. The University requires the undergraduate student to complete at least 50% of the required credit units/hours of a programme in residence at UTB. The maximum credit units/hours that are eligible for transfer credits should not exceed two-thirds (66%) of the required credit units/hours based on his/her original degree from another university.

15. CGPA Requirement for Graduation

The required CGPA for an undergraduate student to be eligible for graduation is 2.0 out of 4.0

16. Career Pathways

The graduates of BSBI programme can pursue a career as online marketing analyst, business analyst, software applications developer, information security analyst, computer systems analyst, database administrator, management analyst, web application developer, e-commerce developer, management consultant, project manager, quality assurance manager, video production manager or entrepreneur. In addition, the programme can lead graduates for postgraduate degrees in business such as MBA or MSc in Management Information Systems.

17. BSBI CURRICULUM SKILLS MAPPING											
Year	Course Code	Course Title	Core (C) or Option (O)	Program Intended Learning Outcomes							
				P1	P2	P3	P4	P5	P6	P7	P8
Year 1 1 st Tri	ENGL401	English Communication Skills1	(C)							√	
	HIST400	History of Bahrain and the GCC Region	(C)						√		
	MATH401	College Algebra	(C)	√	√		√	√		√	√
	SOCI400	Sociology	(C)				√				
	BUSI615	Principles of Management	(C)	√	√		√			√	
	COMP613	Fundamentals of Information Systems	(C)	√	√	√	√	√	√		
	EUTH400	Euthenics 1	(C)								
Year 1 2 nd Tri	ENGL402	English Communication Skills 2	(C)							√	
	BUSI621	Organizational Behavior	(C)	√	√	√				√	√
	BUSI622	Financial Accounting 1	(C)	√	√	√	√	√			
	BUSI633	Microeconomics	(C)	√	√	√	√	√	√		
	BSBI625	Principles of Banking and Finance	(C)	√	√		√			√	
	COMP623	Business Information Systems	(C)	√	√	√	√	√		√	√
	EUTH401	Euthenics 2	(C)								
Year 1 3 rd Tri	ARAB400A	Arabic Language	(C)							√	
	ENGL403	Speech and Oral Communication	(C)							√	
	HUMR400	Human Rights	(C)				√				
	BUSI631	Principles of Marketing	(C)	√		√				√	√
	BUSI632	Human Resource Management	(C)	√		√	√		√	√	√
	BUSI713	Macroeconomics	(C)	√	√	√	√	√	√		
Year 2 1 st Tri	ENGL502	Technical Writing	(C)							√	√
	MATH403	Business Statistics	(C)							√	
	BUSI711	Managerial Accounting 1	(C)	√		√	√				
	BSBI711	Bahrain Business Environment & Cross-Cultural Management	(C)	√			√		√		
	COMP711	Introduction to E-Commerce	(C)		√		√	√	√	√	√
	COMP712	Computer Programming 1	(C)	√	√						

17. BSBI CURRICULUM SKILLS MAPPING											
Year	Course Code	Course Title	Core (C) or Option (O)	Program Intended Learning Outcomes							
				P1	P2	P3	P4	P5	P6	P7	P8
Year 2 2nd Tri	ENVM400	Environmental Management	(C)	√	√				√	√	√
	BUSI721	Quantitative Methods	(C)	√		√	√	√		√	
	BUSI712	Mathematics of Investment	(C)	√		√	√				
	COMP721	Database Management Systems	(C)	√	√				√		√
	COMP722	Human-Computer Interaction	(C)	√	√					√	
	COMP723	Computer Programming 2	(C)	√	√	√			√		
Year 2 3rd Tri	BSBI731	Research Methods	(C)	√		√		√	√	√	
	BSBI732	Technopreneurship	(C)	√		√	√			√	√
	BSBI733	Financial Management	(C)	√				√		√	√
	COMP731	Systems Analysis and Design 1	(C)	√	√	√	√	√	√		√
	COMP732	IT Infrastructure	(C)	√	√				√		
	COMP733	Mobile Application Development	(C)		√				√		
Year 3 1st Tri	BUSI811	Islamic Banking and Finance 1	(C)	√	√		√		√		
	BSBI812	Business Process Management	(C)	√	√	√	√	√	√	√	√
	BSBI813	Bahrain Business Law and Taxation	(C)	√	√		√	√		√	√
	COMP811	Systems Analysis and Design 2	(C)	√	√		√		√		
	COMP812	IS Strategy, Management & Acquisition	(C)	√	√				√		
	BSBI814	Elective 1	(C)								
Year 3 2nd Tri	BSBI821	Operations Management	(C)	√	√		√		√	√	√
	COMP821	Information Management, Security and Support	(C)	√		√	√		√	√	√
	COMP822	Web Design and Development	(C)	√	√	√	√	√	√		
	COMP823	Project Management	(C)	√	√	√	√	√	√	√	√
	COMP824	Data Mining &	(C)	√	√	√	√	√	√	√	√

17. BSBI CURRICULUM SKILLS MAPPING

Year	Course Code	Course Title	Core (C) or Option (O)	Program Intended Learning Outcomes							
				P1	P2	P3	P4	P5	P6	P7	P8
		Warehousing									
	COMP825	FinTech	(C)			√		√		√	
Year 3 3rd Tri	BSBI831	Digital Marketing	(C)	√	√	√			√	√	
	BSBI832	Business Planning	(C)	√		√	√			√	√
	BSBI833	BSBI Capstone Project A	(C)	√	√	√			√		
	BUSI831	Business Analytics	(C)	√	√	√	√	√	√	√	√
	COMP832	Enterprise Systems Architecture and Applications	(C)		√	√	√	√		√	√
	COMP833	Elective 2	(C)								
Year 4 1st Tri	BSBI841	Business Ethics	(C)	√	√	√	√	√			
	BSBI842	Business Informatics Internship	(C)	√	√	√	√	√	√	√	√
	BSBI843	BSBI Capstone Project B	(C)	√		√	√	√			
	COMP841	Cloud Computing	(C)	√	√	√		√	√	√	√
	COMP842	Elective 3	(O)								

Elective Title		P1	P2	P3	P4	P5	P6	P7	P8
Business Innovation	(O)	√	√	√	√		√	√	√
Strategic Management	(O)	√		√	√		√	√	√
Supply Chain Management	(O)		√	√		√		√	√
Multimedia Development	(O)		√	√		√	√	√	√
Open Source Software	(O)	√		√	√	√			√
Computing Trends	(O)	√		√	√	√		√	√
Accounting Information Systems	(O)	√		√		√	√		√

 University of Technology Bahrain	Doc. No.	QR-AAD-01
	Revision No.	01
	Date of Effectivity	01-09-23
College: College of Administrative and Financial Sciences		
BSBI PROGRAMME SPECIFICATIONS AY2021-2022		Page 13

BACHELOR OF SCIENCE IN BUSINESS INFORMATICS (BSBI)
CURRICULUM PLAN EFFECTIVE AY2021-2022

COURSES DESCRIPTION

FOUNDATION COURSES

COURSE CODE	COURSE TITLE	LEC Hrs	LAB Hrs	CREDIT UNITS	PRE-REQUISITE(S)
MATH300	Remedial Mathematics	3	0	0	
This course is a comprehensive study of mathematical skills in arithmetic which should provide a strong mathematical foundation to pursue formal courses in college mathematics. Topics include principles and applications of whole numbers, fractions, decimals, percent, rates, ratio and proportion, measurements and prerequisite concepts for algebra, geometry and statistics.					
ENGL301	Speaking and Listening	9	0	0	
This is a required remedial course for entering students whose English language skills need further improvement and enhancement to be able to cope with the university's academic courses. It utilizes an integrated approach to developing the students' English macro skills with an emphasis on speaking and listening. Further, this course introduces the students to English language arts where they get involved and engaged in three phases (beginner, intermediate, and advanced). It intensifies its course-intended learning objectives with the utilization of audio-lingual presentations where the students are expected to gain more knowledge to communicate effectively in English.					
ENGL302	Grammar and Vocabulary	9	0	0	
This is a required remedial course for entering students whose English language skills need further improvement and enhancement to be able to cope with the university's academic courses. It utilizes an integrated approach to developing the students' skills in grammar and vocabulary in three phases (beginner, intermediate, and advanced). In addition, it includes information related to dictionary use, basic grammar rules and daily use of vocabulary words through a variety of contexts, written responses, idioms, writing structures, settings of writing, and the process of forming written communication where the students are expected to gain more knowledge to communicate effectively in English.					

BACHELOR OF SCIENCE IN BUSINESS INFORMATICS (BSBI)
CURRICULUM PLAN EFFECTIVE AY2021-2022

Course Description

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL401	English Communication Skills 1	3	0	3
This is an introductory course in English communication designed to provide comprehensive, up-to-date and relevant instruction in the correct use of grammar. It intends to build up students' confidence in communicating their thoughts, ideas, information and messages through the functions and structures of different words, phrases, clauses, sentences and paragraphs. In addition, the integration of language skills increases their communicative competence and prepares them for the academic and social challenges in college and beyond.				

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
MATH401	College Algebra	3	0	3
This course is designed to familiarize learners with main theories, principles and concepts of college algebra that are useful in analysis and simplification of basic and some advanced mathematical problems. Content includes functions which are polynomial, rational, exponential, logarithmic and related equations. Sketching graphs, Matrices, determinants, progressions and inequalities as applied to engineering.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI615	Principles of Management	3	0	3
This is an introductory course for the study of management and the role it plays in organizations. It introduces students to the ideas of managerial levels, skills, and management 'concepts. It develops their understanding about how successful employees and managers operate. The course begins with a historical overview of the management field and evolution of management thought. Additionally, the course focuses on the management process/ managerial functions such as planning, organizing, leading, and controlling.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP613	Fundamentals of Information Systems	3	0	3
This course focuses on the detailed knowledge on management information systems by establishing a link between business processes and information technology. It includes the topics on decision making frameworks, types of information systems, systems development, networks, IT infrastructure and, social impacts of IT.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
EUTH400	Euthenics 1	1	0	0
This course is designed to bring in the policies and procedures in the university, to guide the students in the performance of their respective role and to become adept on ideals needed in their academic pursuit. Thus, students are oriented on the history, vision, mission, values and objectives of the university, the services and academic support available, the academic and non-academic policies, the different misconduct and violations with corresponding penalties in which the learning objectives are better facilitated by various classroom discussion through collaborative team work learning experience.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL402	English Communication Skills 2	3	0	3
This is an intermediate course in English communication geared towards equipping the college students with writing skills in preparation for academic writing. It progresses from familiarizing the sentence conventions to balancing the structures of the sentence for variation and rhythm. Further, it enables students to follow the principles that govern the composition writing in achieving unity, coherence and emphasis; to improve their expository, descriptive, narrative and argumentative works and to get hold of the discipline in academic writing for future advantages by providing them the opportunity in adhering the process of writing for effective communication.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
HIST400	History of Bahrain and the GCC Region	3	0	3
This Course includes the history of the Kingdom of Bahrain and the Arabian Gulf region. It includes the important events in Bahrain and the Arabian Gulf region and their impact on the current situation. It covers the strategic importance of Bahrain, starting with "Ancient civilizations and passing through" the Islamic era, Bahrain's entry into Islam, Portuguese occupation, competition of powers in the 17th century and the rise of a tribe of Al-Atub. It includes the history of Bahrain under the British protection and the conventions between Bahrain and Great Britain up to British troops leaving the region. It describes the places and persons as well as the historical developments and achievement in Bahrain during the time of Al- Khalifah. It includes independence of Bahrain, issuing of the first constitutional law, reform project by His Majesty King Hamad,				

constitutional amendments, establishment of GCC, history of Arab Gulf states. It makes the student able to present his patriotic character through historical discussions.

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

This course is designed to expose students in a detailed approach of studying society. It intends to give emphasis on the sociological perspectives, relationships with other social sciences, the main figures in sociological development, including introduction to culture, transformation of societies, importance of socialization, social groups, deviance and social control. Further, it incorporates the discussions on social institutions that enable the college students to understand the economic perspective from ancient to present, the evolution of education and the current viewpoint of family.

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

The course deals with a comprehensive analysis of human behavior at both individual and organizational levels. Topics include personality and attitudes, perception and attribution, motivation, communication, work stress, group and team dynamics, leadership, decision making, quality, ethics, job and organization design, conflict management, organizational culture and politics, and organizational change.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI622	Financial Accounting 1	2	2	3

This course provides students with an overview of fundamental financial accounting concepts with a focus on learning the accounting cycle from different forms of organization. Through a primary review of accounting transactions, integrated real-world examples, and a variety of practice opportunities, the course emphasis on the application of accounting principles and techniques in practice.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI633	Microeconomics	3	0	3

This course introduces students to the economic analysis of decision-making, how markets work, and how consumers and firms make their decisions. The course focuses on the application of economic reasoning to a range of problems relevant for understanding the mechanisms and institutions that allocate and distribute resources. It covers rational decisions; demand and supply; the market mechanism; elasticity, efficiency, and equity.

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

The course deals with both the theoretical and practical concerns related to today's financial system. It covers money and the financial system, the payment system, financial instruments, and financial institutions. The course enables the students to demonstrate in depth knowledge and understanding of the structure and operations of commercial banks, central banking and the operation of monetary policy, non-banking institutions, 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 basic and advanced concepts of information technology, its tools, and applications. It includes MS Office package that is used for daily tasks to improve decision making and productivity. The course enables students to demonstrate high level of proficiency in word processing, spreadsheets, PowerPoint presentation, electronic mail, and internet browsing. Students also analyze and evaluate the internet's impact on the use of IS in organizations.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP712	Computer Programming 1	2	2	3
This course covers detailed knowledge in problem solving and algorithm development, with emphases on developing good programming habits, and programming in a modern computer language. The course familiarizes the students with the features of object-oriented programming and its applications to solve the problems. It includes a discussion of an overview of the Java language syntax, including packages, classes, methods, variables, conditional statements, control flow and Arrays. The laboratory focuses on the implementation of the programming theories and concepts in Java programming language.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP723	Computer Programming 2	2	2	3
This course covers object-oriented techniques using modern fourth generation language. Topics include inheritance, method overloading, overriding, polymorphism, packages, exception handling, multithreading, file operations and Event driven programming using swing components. The laboratory focuses on the implementation of the programming theories and concepts in Java programming language.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
EUTH401	Euthenics 2	1	0	0
This course is designed to provide the discussion on the students' rules and regulations of the university in order to practice the right conduct of behavior inside and outside the university premises. It intends to teach the students on the different stages of personality development, the equivalent penalties in different academic offences and factors that influence behavioral multiple intelligences. Further, the incorporation of oral/written communication through individual and group discussions can encourage learners to ponder on the meaning of life and discover the purpose of their existence.				
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. It also identify the theorem of probability, probability distributions and link it with real life problems, it also covers inferential measures and how we interpret the data for decision making.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ARAB400A	Arabic Language	3	0	3
The course focuses on the fundamentals of Arabic language, such as reading, analyzing, and critique. It explains the characteristics of the required texts, which deal with different literary genres, prose and poetry. The course also focuses on the understanding and application of grammatical rules and basic morphological methods in Arabic, taking into account the correct spelling skills.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
HUMR400	Human Rights	3	0	3
This course makes the students able to know the background, main concepts of Human Rights and the philosophical thoughts and Islamic view which contribute in modern Human Rights. It makes them able to analyze what is mentioned in different kinds of Human Rights sources as Universal Declaration of Human Rights, International Covenant on Civil and Political Rights and International Covenant on Economic, Social and Cultural Rights. It deals in the same approach with the National Sources of Human Rights such as the Constitutional Law of Kingdom of Bahrain and National Action Charter with applications as well. The course makes the students able to analyze, discuss and debate Human Rights issues in different ways.				

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI712	Mathematics of Investment	3	0	3
The course is a mathematical treatment of the methods used in understanding 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 the theories and applications of simple and compound interest, annuity, stock, and bonds.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
ENGL403	Speech and Oral Communication	3	0	3
This is a developmental course in English communication geared towards competent, efficient and effective interpersonal speaking across communicative contexts. It refines oral communication skills through accurate articulation of segmental phonemes, pronunciation drills and enunciation of the suprasegmental features of speech, specifically sentential stress and intonation. Further, it incorporates the mechanics and techniques of speech craft and delivery with emphases on practical speaking experiences and analysis of audience psychology, which are deemed applicable in diverse speech situations.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI631	Principles of Marketing	3	0	3
This course focuses on the essentials of marketing, its nature and its scope that are crucially important to the organization's success in a dynamic environment. The course provides a broad background on the marketing concept, the role of marketing both within the organization and within the external environment, the marketing mix, (product, place, promotion, and price), market segmentation, targeting and positioning, consumer, and business behavior.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI632	Human Resource Management	3	0	3
This course is an introductory course for Human Resource Management (HRM); it is designed to cover the major topics and issues related to HRM, which will help the student understand and analyze the role that HRM plays in formulating and implementing organizational strategy and in achieving overall organizational efficiency and effectiveness. The course exposes students to HRM concepts, objectives, and functions. It also looks at diverse challenges that face HRM in its environment. Additionally, the course focuses on the scope of HRM in terms of job analysis, Human resources planning and recruiting, selection, training, and performance evaluation and appraisal.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI713	Macroeconomics	3	0	3
The primary focus of this course is twofold: (1) understanding the core macroeconomic concepts of growth, inflation, and unemployment – and how they are interrelated and (2) understanding how fiscal and monetary policy at both the national and international level influences these concepts. This course also covers concepts such as GDP, inflation, unemployment, usage of monetary and fiscal policies, in real world setting.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI711	Managerial Accounting 1	3	0	3
This course covers the use of accounting information for internal planning, analysis, and decision-making with a focus on information generated by internal accounting systems. It focuses on equipping students with the knowledge to prepare, understand, evaluate, and act upon the many financial and non-financial reports used in managing modern firms. Such information is a key input into a wide range of analytical tools to support decisions: analyzing the profitability of various products, managing product-line portfolios, setting prices, measuring and managing the profitability of customers, making operational and strategic decisions,				

evaluating investments, and investigating efficiency.

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

This course covers the electronic commerce elements, types, models, development process, applications, services, and technologies which are used to conduct business on the World Wide Web. It focuses on the three major driving forces that permeate all aspects of e-commerce: business development and strategy, technological innovations, and the social and legal issues and impacts. It also deals with the advantages and challenges related to integrating e-commerce applications to business

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

This course exposes the student to the business environment in the Kingdom of Bahrain. It covers public sector regulations and policies as well as the role of Central Bank of Bahrain in adjusting the national economy beside the contribution of Tamkeen and Labour Market Regulatory Authority to small and medium enterprises as part of Bahrain vision 2030.

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

This course examines the environmental management of natural resources, basic scientific principles, energy flow, population and food security, conventional and renewable energy, water issues, pollution and its relationship to human health, climate impact, waste management and hazardous materials, cost benefit analysis applied to environmental issues, management of resource, sustainable best practice and environmental laws and policies are discussed.

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

This course provides an introduction to the concepts and applications of quantitative methods in management. It develops mathematical and statistical competences necessary to facilitate progression in courses such as Operations Management. This course builds on the concepts and analytical tools taught in Principle of Statistics. This course focuses on developing quantitative methods, such as, linear programming, sensitivity and duality theory, transportation and assignment problems, network, and queuing theory in addition to waiting line, game theory and simulation.

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

This course provides advanced core theories and practical skills in databases and database management systems with information technology applications. The theoretical knowledge covers Database Environment, Relational Model, Database Operations, Structured Query Language, Entity Relationship Model and Normalization. It exposes the student to the advanced concepts and techniques in database development as well as providing a foundation for research in databases. The laboratory practices the Data Definition Language (DDL) Commands, Data Manipulation Language (DML) Commands, Data Query Language (DQL) Commands, Transaction Control Language (TCL) Commands, SQL Built-in Functions, Constraints, Joins, GroupBy Command, Subqueries and Database Objects using Oracle SQL Developer tool.

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

The course provides detailed knowledge to the field of human-computer interaction (HCI), an interdisciplinary field that integrates cognitive psychology, design, computer science, and others. Examining the human factors associated with information systems provides the students with the knowledge to understand what

influences usability and acceptance of IS. The course examines human performance, components of technology, methods, and techniques used in the design and evaluation of IS. Societal impacts of HCI such as accessibility are also discussed. User-centered design methods are introduced and evaluated. This course also introduces students to the contemporary technologies used in empirical evaluation methods.

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

This is an advanced course in English academic writing designed to deal with the application of the technical writing principles with the correspondence on business, science, and technology. It aims to develop the technical writing skills and communication of the college students thru the discussions of its elements and ethics with the use of digital technologies. Furthermore, it enables students to adapt the various communication routes in the workplace, to conceptualize suitable contents of technical writing, to understand the characteristics and other methods of communication techniques, to plan and organize advanced level tasks and to work effectively and with accountability with other team members in a creative and productive manner, in any language learning scenario when achieving personal and group outcomes.

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

The course studies the scope and significance of business research. It introduces students to the various aspects of business research, its types, tools, and methods, and students will learn how to apply business research techniques to real-world situations. The course covers topics such as the identification of a topic by the student, proposition of hypothesis, formulation of research questions, development of literature review, select research design and methodologies. Additionally, students will learn data collection techniques, primary and secondary data with application to specific problems, scaling and research instrument design, and sampling design.

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

This course provides advanced concepts, facts and ideas of starting a business, working for an entrepreneurial company or working with entrepreneurial firms as an investor or advisor. The course is designed to demonstrate necessary techniques and tools to planning and organizing business and is aimed to integrate the overall dimensions of entrepreneurship, including identifying a winning business opportunity, gathering funding for and launching a business, growing the organization and harvesting the rewards. In particular topics covered different types of entrepreneurs, its importance for economies, business model creation, financial evaluation and financing the start-up.

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

This course explores the core theories, concepts, and principles of financial management used in managerial decisions. The course focuses on the analysis and application of a range of tools and techniques such as time value of money, financial statement analysis, security valuation, working capital management, and capital budgeting in obtaining and organizing relevant financial information to solve some significant current issues in management.

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

This course covers theory and practice of systems analysis and design, business requirements determination, organizational processes documentation, information flow analysis, and information systems reengineering/design. It focuses on the front-end of the system development life cycle (SDLC) by carefully examining some of the methodologies, approaches, methods, techniques, procedures, tools, and data and

information used by systems analysts in the analysis and design of organizational information systems.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP732	IT Infrastructure	3	0	3

This course provides details of the advanced knowledge of information technology recognized as a critical area in infrastructure management and IT issues. The course apply researches related to the security concepts as well as the new methods used to solve the problem faced by implementing new technology to enhance the data center and reduce risks that might be caused in the organization. It covers topics related to both computer systems architecture and communications network, with an over-all focus on the advanced knowledge of services and capabilities that IT Infrastructure solutions in an organizational context. Students will examine the concepts, models, architectures, protocols, and standards related to the development of an integrated technical architecture (hardware, platforms, software, networks, and data) to serve organizational needs in a rapidly changing competitive and technological environment. It likewise prepares the students for organizational roles that require interaction with external vendors of IT infrastructure component and solutions.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP733	Mobile Application Development	2	2	3

This course provides a systematic explanation of advanced concepts in mobile programming and provide an in depth coverage of mobile systems and it application development. It includes the mobile user interface, application development standards and the mobile technology. Moreover, it covers various mobile computing applications using common paradigms in mobile application frameworks and development environments. The Lab component of the course includes developing apps based on UI widgets, custom views and layouts, notification, toast, menus, dialog, list and data storage using Java and XML in Android Studio.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BUSI811	Islamic Banking and Finance 1	3	0	3

This course introduces students with economic rationale of Islamic values in Islamic financial System. It covers topics on the core principles and basic models of Islamic finance and Establishes a framework for understanding this financial system. It examines how and why Islamic values determine the business climate. It provides a clear framework for analysing the micro- and macro-economic foundations of the Islamic system.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI812	Business Process Management	2	2	3

This course introduces the process-oriented view of the flows of materials, information, products, and services through and across organizational functions. It focuses on the understanding, analyzing, designing, and documenting business processes, and continuously assessing the efficiency and effectiveness of these processes to minimize cost and maximize value creation. Students will learn how to identify information-bearing events, assess, and improve process efficiency, learn to model, and analyze business processes using BPMN applications and related tools, and understand the interactions between human behavior and process design.

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

This course covers the legal environment of international business and contracting, international and U.S. trade laws and treaties, regulation of the international marketplace, legal theories, ethical issues, and regulatory climate affecting business policies and decisions. Topics include the classification and sources of

law; contracts and functions of contracts; and forms of negotiable instruments

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 covers the theory, fundamental concepts, and practical uses of software analysis and design methodologies and tools. It focuses on the object-oriented development approach, methodologies, and modelling tools, along with project management, information system planning, database design and implementation, user interface design, system implementation and maintenance, and systems security and audit. It deals with laboratory applications for designing operational projects for real-world problems.

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

This course covers the examination of the acquisition, development, and implementation of plans and policies from a management perspective. It focuses on the evaluation of IS infrastructure and systems management that support the operational and strategic requirements of the organization, as well as the creation of framework that enables organizational leaders to evaluate current information systems (IS) infrastructures, emerging technologies, and how these technologies impact organizational strategy.

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

The course provides the knowledge and understanding of the efficient management of the different areas of operations as well as its processes, techniques and business practices to create the highest level of efficiency. In addition to this, the course covers the 5M's of production to include man, machine, materials, methods and money and how these factors contribute to improving productivity and quality performance in both manufacturing and service operation to retain global competitiveness and achieve customer satisfaction.

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

This course deals with the critical understanding, application, analysis and evaluation of managing information security and its principles, compliance to laws and ethical standards, governance and security strategic planning, and security policies. It concentrates on advance conditions and situations of measures to ensure confidentiality, availability and integrity of information systems. Further, it focuses on managing risks and threats, and recommends hardware, software, and network security measures and relevant solutions to secure organizational information resources. The course also deals with the new security concepts, models, methods, and mechanisms to maintain, protect, plan and implement contingencies and disaster recovery programs to solve security-related problems.

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

This course is an overview of the modern Web technologies used for Web Development focusing on the technologies, protocols and architectures of the Internet. The topics include History of the Web, Hypertext Markup Language (HTML), Extensible HTML (XHTML), Cascading Style Sheets (CSS), and JavaScript, technology used in web services (WSDL, SOAP, UDDI). In the lab, students are taught in practice how to design web applications using HTML, XHTML, CSS, JavaScript and web services.

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

This course covers the advanced processes, methods, techniques and tools that organizations use to manage projects. It focuses on a systematic methodology for initiating, planning, executing, controlling and closing

project. Drawing that project management in the modern organization is a complex-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 Mining and Warehousing	2	2	3

This course focuses on 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	3	0	3

This subject provides an introduction to the emerging field of Financial Technology (FinTech). It covers the fundamentals of Blockchain technology and its applications in the realms of Finance and Business. The course delves into the transformative impact of financial technologies on various stakeholders, including financial institutions, businesses, banks, and regulatory entities. Additionally, students will gain insights into alternative sources of funding for entrepreneurial ventures, such as crowdfunding and peer-to-peer lending. The overarching goal of this module is to furnish students with the knowledge and analytical skills necessary for assessing the challenges and opportunities stemming from the rapid proliferation of FinTech. Moreover, it aims to elucidate the primary categories of FinTech and their influence on financial institutions and regulatory frameworks. A key objective of this module is to present Financial Technology in an accessible manner, replete with numerous case studies and illustrative examples.

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

This course provides students with the essential concepts and tools needed to understand the emerging role of business analytics in organizations. The course covers understanding, application, analysis, and evaluation of descriptive, predictive, and prescriptive data mining and analytical approaches, methods, techniques, and tools placed and practiced in a spreadsheet environment and other useful applications to develop significant insights for effective business decision making.

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

This course explores digital marketing as a subset of a larger set of concepts and theories within the marketing discipline. Marketers make considerable use of interactive digital technologies: the Internet, interactive TV, SMS communications, electronic kiosks, etc. They do so to achieve a variety of goals: market intelligence provision, developing new business models, building customer profiles, direct and interactive communications, placing goods with customers through virtual stores, and working with customers to develop innovative new products and services. These activities present management with exciting opportunities, reveal new sources of competition and also demand a re-evaluation of core competencies. Topics in the course include digital business models and digital marketing plan, web analytics, online consumer behaviors, driving web traffic and performance metrics, conversion optimization, building a personal brand online, using analytics and data in digital marketing.

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI832	Business Planning	3	0	3
This course covers business opportunities and entrepreneurial goals in terms of funding acquisition for new business venture from idea generation through business planning, funding and startup. It focuses on guiding the students in making key decisions with the aid of business analysis tools for understanding competitive/market dynamics, developing market-entry strategy, financial tools for estimating economic viability, criteria for making decisions to start new ventures.				
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 definition to 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 IS development.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP832	Enterprise Systems Architecture and Applications	2	2	3
The course introduces the theoretical and practical areas of Enterprise Systems (ES) such as Enterprise Resource Planning (ERP) and its strategic role in helping organizations improve their capabilities, operations, and processes. It focuses on systems integration, ES architecture, the development lifecycle, ERP implementation strategies, software, and vendor selection, its operational and post implementation, and program and project management. The course presents the evolution, components and architecture of Enterprise Systems including the benefits and drawbacks of implementing Enterprise Systems and how they can assist organizations to improve their overall efficiency.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI841	Business Ethics	3	0	3
This course deals with the importance of ethics and its role in the business and in the information technology (IT) arena. Ethical dilemmas and decision-making approaches confronting all Business Organization' Stakeholders such as leaders, managers, employees, customers and the public are explored at the societal, organizational and personal levels as well as from an IT perspective.				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
BSBI842	Business Informatics Internship	6	0	6
Internship (Practicum) requires the 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 career as professional employees in leadership positions. In this course, the students undertake a significant experiential learning opportunity that makes them acquire knowledge in an applied work setting. The course represents an educational strategy that links classroom learning and with the actual work environment where the students undertake 240 hours of training in the companies 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 is on the application of process models, project management, risk management, and concluding parts of the project – summary, conclusion and recommendations. The course requires submission of project documentation and successful project oral defense.				

Course Code	Course Title	Lec Hrs	Lab Hrs	Units
COMP841	Cloud Computing	3	0	3
This course introduces students to the knowledge of cloud computing including application scenarios, modes, trends, and its benefits; networking and storage technologies related to virtualization and cloud Fusion Access. This course will prepare students to take the Associate and Professional Cloud Computing certification examinations.				
ELECTIVE 1 (Business Component)				
Course Title	Lec Hrs	Lab Hrs	Units	
Business Innovation	3	0	3	
This course describes how business innovation serves as a fundamental driver of competitiveness for firms in a wide variety of business sectors. It also aims to introduce to students the concepts, theories and strategies that create and deliver value for firms through innovation network, research and development, innovation in products, services, operations, and the commercialization process, with emphasis on the complexities and risks associated with managing innovations. The course further aims to equip the students with the necessary knowledge, skills and attitude to apply strategies and tactics in managing various types of business innovations.				
Course Title	Lec Hrs	Lab Hrs	Units	
Strategic Management	3	0	3	
The course focuses on advanced 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.				
Course Title	Lec Hrs	Lab Hrs	Units	
Supply Chain Management	3	0	3	
The course covers an end-to-end perspective of managing global supply chains through the introduction of the functional areas of supply chain management. Students will be exposed to functional business processes while gaining a perspective of how functional business processes must be integrated to achieve supply chain objectives.				
ELECTIVE 2 & ELECTIVE 3 (Informatics Component)				
Course Code	Course Title	Lec Hrs	Lab Hrs	Units
Elective	Multimedia Development	2	2	3
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.				
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 Title	Lec Hrs	Lab Hrs	Units
Computing Trends	2	2	3
This course covers Topics which 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, and Artificial Intelligence.			
Course Title	Lec Hrs	Lab Hrs	Units
Accounting Information Systems	2	2	3
This course examines the design, operations, risks, and controls of accounting information systems. Emphasis is placed on financial transaction cycles and core business processes, with focus on the risks and controls involved in the processing of financial transactions in a computerized environment. This also considers current issues on accounting information systems that have ethical considerations and practical applications.			