



Outcome-Based Education (OBE) Curriculum

CHITTAGONG INDEPENDENT UNIVERSITY

DEPARTMENT OF SUPPLY CHAIN MANAGEMENT

BACHELOR OF BUSINESS ADMINISTRATION (BBA) IN SUPPLY CHAIN MANAGEMENT

Part A

VISION OF CHITTAGONG INDEPENDENT UNIVERSITY

Chittagong Independent University aspires to become a premier institution delivering transformative higher education and research to support sustainable economic growth in the country while ensuring a mutualist relationship with local, national, and global communities.

MISSION OF CHITTAGONG INDEPENDENT UNIVERSITY

- 1) To produce graduates of global standards by infusing essential knowledge, skills, values and creativity through innovative education and scholarship.
- 2) To encourage, support and conduct valuable research responsive to the diverse needs of society, economy and industry.
- 3) To create a collaborative relationship with outside communities stimulating exchange of ideas and productive endeavors.



DEPARTMENT OF SUPPLY CHAIN MANAGEMENT

VISION:

The Department of Supply Chain Management aspires to become a leading center of excellence in Supply Chain Management education, leveraging Chattogram's strategic geographical advantage as a major port city to develop industry-ready professionals who drive innovative, sustainable, and efficient supply chain solutions on a global scale.

MISSION:

M1	To produce graduates of high standard equipped with sufficient knowledge in Supply Chain Management.
M2	To advance the knowledge of supply chain management through relevant and contextual research.
M3	To integrate Sustainable Development Goals (SDGs) in all aspects of teaching, learning, and research with regard to the Supply Chain Management.
M4	To foster the culture of innovation and entrepreneurship in line with The Fourth Industrial Revolution (IR 4.0).
M5	To engage with community, alumni, industry, and all other stakeholders.

NAME OF THE DEGREE:

Bachelor of Business Administration (BBA) in Supply Chain Management.

DESCRIPTION OF THE PROGRAM:

Sl. No	Category of Courses	Distribution of Credits
1	General Education/Foundation Courses	36 Credits
2	Core Courses	57 Credits
3	Major Courses	23 Credits
4	Minor Courses	15 Credits
5	LFE (Live-in-Field Experience)	3 Credits
6	Internship/Research Project	6 Credits
<i>Total requirement for the degree</i>		<i>140 credits</i>

GRADUATE ATTRIBUTES:

- 1) Knowledgeable in contemporary issues of the business and management;
- 2) Creative, innovative, conscientious;
- 3) Having business intelligence, leadership, professionalism, and problem-solving skills;
- 4) Having negotiation, communication, persuasiveness, critical thinking, and decision-making ability;
- 5) Tendency to develop team working ability, intercultural competency, inquisitiveness, self-awareness, and lifelong learning habit.



Program Education Objectives (PEOs):

PEO1	Understanding core concepts and principles of Supply Chain Management: The students are expected to be able to exhibit an appropriate blend of knowledge in the field of Supply Chain Management.
PEO2	Problem solving, critical thinking, and ethical reasoning: The students are expected to develop critical thinking skills as well as develop the understanding of the ethical reasoning including the ability to describe, analyze, and link the context with concepts and theories, evaluate the situation, solve problems, and make and defend decisions.
PEO3	Effective communication skills: The students are expected to develop effective reading, listening, writing, and speaking skills in the context of professional business communications.
PEO4	Team building, and networking: The students are expected to be able to interact professionally and productively in small teams in a variety of social and business settings and demonstrate effective leadership and collaboration skills for making decisions and accomplishing the goals.
PEO5	Entrepreneurial competencies: The students are expected to be able to start their own business ventures by having both theoretical knowledge and practical experience of a certain period.

Program Learning Outcomes (PLO):

PLO1	The students will be able to develop in-depth theoretical and practical knowledge of Supply Chain Management in light of sustainable development and industrial revolutions.
PLO2	The students will be able to develop capacity to prepare and implement business plans through utilizing latest technology along with creativity, integrity, and entrepreneurial skills.
PLO3	The students will be able to develop the ability to understand, predict, and manage the operational & environmental issues of business through strong leadership and professionalism.
PLO4	The students will be able to develop effective communication skills to present ideas, problems, and solutions to all the stakeholders.
PLO5	The students will be able to develop adaptability to work in a diverse, dynamic, and challenging environment through self-improvement, teamwork, and innovation.

Mapping Mission of the University with PEOs:

PEOs	Mission 1	Mission 2	Mission 3	Mission 4	Mission 5
PEO1	3	3	2	2	1
PEO2	3	3	2	2	2
PEO3	3	2	3	1	3
PEO4	3	2	3	2	3
PEO5	3	1	3	3	2

Mapping PLOs with the PEOs:

PLOs	PEO1	PEO2	PEO3	PEO4	PEO5
PLO1	3	3	1	2	3
PLO2	3	3	1	2	3
PLO3	3	3	2	3	3
PLO4	2	2	3	3	1
PLO5	1	2	3	3	3

Mapping Courses with the PLOs:

Sl No.	Courses		PLO1	PLO2	PLO3	PLO4	PLO5
1	ENG-0114-101		1	1.5	2	3	2
2	ENG-0114-102		1.5	2.5	3	3	2.5
3	BUS-0114-105		2	2.5	3	3	1
4	ENG-0114-106		2.5	3	2	2.5	2.5
5	CAB- 0611-101		3	3	3	2	2
6	DTB-0613-101		3	2	2.5	2.5	1.5
7	BUS-0542-211		2	3	2	3	2
8	MAT-0021-101		1	2	1	1	1
9	ENV-0521-111		2	2	2.5	2	1
10	PHY-0533-111		2	2	2.5	2	1
11	PSY-0313-111		2	2	2.5	2	1
12	SOC-0314-111		3	3	3	3	1.5
13	HEA-0923-101		2	2	2	2	1
14	ANT-0314-111		1.5	2.5	2.5	2.5	3
15	SOC-0111-301		2	2.5	1.5	2	3
16	BUS-0114-201		3	2.5	2.5	3	2
17	ETH-0223-201		3	2	3	1.5	1.5
18	BDS-0114-101		3	2.5	3	2	2.5
19	BDS-0222-102		3	3	3	2.5	2
20	BLL-0232-101		2.5	2.5	2.5	2	2.5
21	ACN-0411-201		3	3	2.5	2.5	2
22	ACN-0411-204		2.5	2.5	3	2.5	2
23	ACN-0411-304		3	2	2.5	3	1.5
24	BUS-0114-202		3	2.5	3	2.5	3
25	BUS-0114-310		2.5	3	1	2.5	1
26	BUS-0421-361		2.5	1.5	3	2	2.5
27	BUS-0111-485		3	3	3	3	1.5
28	ECN-0311-211		3	3	2.5	2.5	1
29	ECN-0311-212		2.5	2.5	3	2	2
30	FIN-0412-211		3	3	2	3	2.5



31	FIN-0412-311		3	3	2	2	2.5
32	HRM-0413-301		3	3	3	3	2.5
33	HRM-0413-381		2.5	3	2.5	2.5	2
34	MGT-0413-201		3	2.5	2	2.5	2
35	MGT-0413-301		3	3	3	2.5	2
36	MGT-0413-305		2.5	3	2.5	2.5	2
37	MGT-0413-331		2.5	2.5	3	2	2
38	MGT-0413-490		2.5	2.5	3	2.5	2.5
39	MIS-0612-201		3	3	2	2.5	3
40	MKT-0414-201		3	3	2.5	3	1.5
41	SCM-0413-351		2.25	3	2.75	2.5	2
42	SCM-0413-352		2.5	2	2.75	2	2
43	SCM-0413-353		2.5	2.5	2.25	2	2
44	SCM-0413-354		2.25	2.25	2	2.25	2
45	SCM-0413-355		2.5	2	2.75	2	2
46	SCM-0114-304		2.25	3	2.75	2.5	2
47	SCM-0413-402		2.75	2.5	2.25	2	2
48	SCM-0413-403		2.75	2.5	2.25	2	2
49	SCM-0413-340		3	3	3	2.5	2
50	SCM-0413-460		2.5	2.5	2.5	3	3
51	SCM-0413-451		3	3	2.5	2.5	2
52	SCM-0311-303		3	3	3	1.6	2
53	SCM-0413-400L		2.75	2.5	2.25	1.75	2.25
54	LFE-0111-201		2.5	2	2	2.5	3
55	BBA-0111-496		3	3	2.5	2	3
56	BBA-0111-497		3	3	2.5	2	3

Part B

Structure of the Curriculum

BBA IN SUPPLY CHAIN MANAGEMENT PROGRAM

- a) Duration of the program: Years: 4 (*Four*) Years; Semesters: 8 (*Eight*).
- b) Admission Requirements:
 - i. Minimum GPA 2.5 both in SSC/Equivalent and HSC/Equivalent or GPA 6.00 (Combined) but the score should not be less than GPA 2.00 in any individual examination;
 - ii. O' Level in 5(Five) subjects and 'A' Level in 2(Two) subjects with a minimum 'B' Grade in four subjects and 'C' Grade in three subjects.
- c) Total minimum credit requirement to complete the program: According to BNQF (Part B): *140 Credits*;
- d) Total class weeks in a Year/semester: *15 Weeks/Semester*;
- e) Minimum CGPA requirements for graduation: *CGPA 2.00 on the scale of 4.00*;
- f) Maximum academic years of completion: *08 (Eight) Years*.
- g) *Category of Courses*:

i. GENERAL EDUCATION/FOUNDATION COURSES:

General Education/Foundation Courses			36 Credits
Communication Skills			6
1.	ENG-0114-101	Listening and Speaking Skills	3
2.	ENG-0114-102	English Reading Skills	3
3.	BUS-0114-105	Business Communication	3
4.	ENG-0114-106	Advanced English Skills	3
Computer & IT Skills			3
1.	CAB- 0611-101	Computer Applications in Business	3
2.	DTB-0613-101	Digital Transformation in Business	3
Numeracy			6
1.	BUS-0542-211	Business Statistics	3
2.	MAT-0021-101	Intermediate Mathematics	3
Natural Sciences			3
1.	ENV-0521-111	Introduction to Environmental Science	3
2.	PHY-0533-111	Physics	3
3.	PSY-0313-111	Psychology	3
Social Sciences			9
1.	SOC-0314-111	Introduction to Sociology	3
2.	HEA-0923-101	Health and Society	3



3	ANT-0314-111	Anthropology	3
4	SOC-0111-301	Social Science Research Methods	3
5	BUS-0114-201	Introduction to Business	3
6	ETH-0223-201:	Ethics, Responsibility, and Sustainability in Business	3
Humanities			9
1.	BDS-0114-101	Bangladesh Studies	3
2.	BDS-0222-102	History of the Emergence of Bangladesh	3
3.	BLL-0232-101	Bangla Bhasha & Shahitto (বাংলা ভাষা এবং সাহিত্য)	3

ii. CORE COURSES:

Core Courses			57 Credits
1.	ACN-0411-201	Principles of Accounting	3
2.	ACN-0411-204	Cost and Management Accounting	3
3.	ACN-0411-304	Auditing and Taxation	3
4.	BUS-0114-202	Business Mathematics	3
5.	BUS-0114-310	Business Analytics	3
6.	BUS-0421-361	Legal Environment of Business	3
7.	BUS-0111-485	Business Research Methods	3
8.	ECN-0311-211	Microeconomics	3
9.	ECN-0311-212	Macroeconomics	3
10.	FIN-0412-211	Principles of Finance	3
11.	FIN-0412-311	Bank Management	3
12.	HRM-0413-301	Human Resource Management	3
13.	HRM-0413-381	Employment / Labour Law	3
14.	MGT-0413-201	Principles of Management	3
15.	MGT-0413-301	Organizational Behavior	3
16.	MGT-0413-305	Entrepreneurship Development & SME Management	3
17.	MGT-0413-331	Operations & Supply Chain Management	3
18.	MGT-0413-490	Strategic Management	3
19.	MIS-0612-201	Fundamentals of MIS	3
20.	MKT-0414-201	Principles of Marketing	3

iii. MAJOR & MINOR COURSES OF SUPPLY CHAIN MANAGEMENT:

Requirements for Major in Supply Chain Management: 23 Credits

Requirements for Minor in Supply Chain Management: 15 Credits

List of courses for both Supply Chain Management Major & Minor			
Group: A (Mandatory)			Credit Hours
1.	SCM-0413-351	Demand Planning and Fulfillment	3
2.	SCM-0413-352	Freight Forwarding, Logistics and Shipping	3
3.	SCM-0413-353	Sustainable Procurement and Outsourcing	3
4.	SCM-0413-354	International Supply Chain Management	3
5.	SCM-0413-355	Six Sigma and Lean Management	3
Group: B (Optional) Any Three including MGT-0413-400L			
1.	SCM-0114-304	Applied Analytics for Operations, Supply Chain and Logistics	3
2.	SCM-0413-402	Special Issues in Operations and Supply Chain Management	3
3.	SCM-0413-403	Materials Management	3
4.	SCM-0413-340	Management Science	3
5.	SCM-0413-460	Enterprise Resource Planning	3
6.	SCM-0413-451	Quality Management	3
7.	SCM -0311-303	Econometrics	3
8.	SCM-0413-400L	Software Applications in Supply Chain Management (Compulsory for major)	2

iv. LFE & INTERNSHIP/RESEARCH PROJECT:

Mandatory			9
1.	LFE-0111-201	Live-in-Field Experience	3
2.	BBA-0111-496	Internship	6
3.	BBA-0111-497	Research Project**	6

**In exceptional situations, a student will be allowed to opt for a Research Project as an alternative to Internship.



SEMESTER- WISE DISTRUBUTION OF THE COURSES

First Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	ENG-0114-101	Listening and Speaking Skills	BBA	3	100
2	CAB- 0611-101	Computer Applications in Business	BBA	3	100
3	BUS-0114-201	Introduction to Business	BBA	3	100
4	HEA-0923-101	Health and Society	BBA	3	100
5	MIS-0612-201	Fundamentals of MIS	BBA	3	100
6	MGT-0413-201	Principles of Management	BBA	3	100

Second Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	BUS-0114-105	Business Communication	BBA	3	100
2	MKT-0414-201	Principles of Marketing	BBA	3	100
3	ENG-0114-106	Advanced English Skills	BBA	3	100
4	MAT-0021-101	Intermediate Mathematics	BBA	3	100
5	BDS-0114-101	Bangladesh Studies	BBA	3	100
6	BUS-0542-211	Business Statistics	BBA	3	100

Third Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	ENV-0521-111	Introduction to Environmental Science	BBA	3	100
2	BDS-0222-102	History of the Emergence of Bangladesh	BBA	3	100
3	ACN-0411-201	Principles of Accounting	BBA	3	100
4	HRM-0413-301	Human Resource Management	BBA	3	100
5	BLL-0232-101	Bangla Bhasha & Shahitto	BBA	3	100



		(বাংলা ভাষা এবং সাহিত্য)			
6	ECN-0311-211	Microeconomics	BBA	3	100

Fourth Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	FIN-0412-311	Bank Management	BBA	3	100
2	ECN-0311-212	Macroeconomics	BBA	3	100
3	MGT-0413-301	Organizational Behavior	BBA	3	100
4	BUS-0114-202	Business Mathematics	BBA	3	100
5	ACN-0411-304	Auditing and Taxation	BBA	3	100
6	FIN-0412-211	Principles of Finance	BBA	3	100

Fifth Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	MGT-0413-331	Operations & Supply Chain Management	BBA	3	100
2	BUS-0114-310	Business Analytics	BBA	3	100
3	ACN-0411-204	Cost and Management Accounting	BBA	3	100
4	BUS-0421-361	Legal Environment of Business	BBA	3	100
5	HRM-0413-381	Employment / Labour Law	BBA	3	100
6	MGT-0413-305	Entrepreneurship Development & SME Management	BBA	3	100

Sixth Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	Major 1*		BBA	3	100
2	Major 2*		BBA	3	100
3	Major 3*		BBA	3	100
4	Minor 1*		BBA	3	100
5	Minor 2*		BBA	3	100
6	Minor 3*		BBA	3	100

*To be offered on the basis of the necessity.



Seventh Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	BUS-0111-485	Business Research Methods	BBA	3	100
2	Major 4*		BBA	3	100
3	Major 5*		BBA	3	100
4	Major 6*		BBA	3	100
5	Minor 4*		BBA	3	100
6	Minor 5*		BBA	3	100

*To be offered on the basis of the necessity.

Eighth Semester- BBA in Supply Chain Management Program:

Sl No.	Course Code	Course	PoE	Credits	Marks
1	Major 7*		BBA	3	100
2	Major 8*		BBA	3	100
3	MGT-0413-490	Strategic Management	BBA	3	100
4	LFE-0111-201	Live-in-Field Experience	BBA	3	100
5	BBA-0111-496 or BBA-0111-497	Internship or Research Project	BBA	6	50

*To be offered on the basis of the necessity.

Part C

Description of the Courses

BBA IN SUPPLY CHAIN MANAGEMENT PROGRAM

GENERATL EDUCATION/FOUNDATION COURSES

Communication Skills

ENG-0114-101: LISTENING AND SPEAKING SKILLS

Credit Hours: 3

Rationale of the Course:

The course will equip students with two of the most important aspects of communication – listening and speaking through an interactive learning environment where students will actively engage themselves in the classroom discussions and tasks.

Course Objective

This course covers listening and speaking skills and is designed to develop students' existing ability to communicate successfully in English. The focus of the course is on the functional and interactive aspect of the language acquisition. At the end of the course students will feel confident, positive to communicate their messages effectively to a variety of audience for academic, social and work-related purposes.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Demonstrate basic understanding of communication in various contexts and communicate in English with sufficient accuracy and fluency so that they successfully make meanings in academic and professional setting.
CLO2	Develop students' abilities to assimilate meaning and comprehend maximum number of sentences in natural contexts
CLO3	Deliver clear and focused oral presentations while communicating with the community
CLO4	Use analytical thinking skills to understand main and specific information and interpret stress and intonation while listening and comprehend different levels of oral language to take part in more advanced topics
CLO5	Monitor and apply strategies to a specified level of accuracy in grammar, sentence structure, word choice, and pronunciation elements while communicating in real life situations

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO 1	1	1	3	3	2



CLO 2	1	2	2	3	2
CLO 3	1	1	1	3	1
CLO4	1	2	2	3	2
CLO5	1	1	2	2	3
Average	1.0	1.4	2.0	2.8	2.0

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs:

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Listening for main ideas and specific information Greetings, introducing yourself and others.	3	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Role play	1
2. Understanding instructions/ directions	3	Teacher- Student interaction, Student-Student interaction	Test/Presentation/ Role play	1, 2
3. Understanding advice & responding questions appropriately	3	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Assignment	1, 2
4. Inferring the meaning of unfamiliar words Getting meaning from context	3	Teacher- Student interaction, Student-Student interaction	Test/Assignment	2
5. Accurate note-taking utilizing a variety of methods	3	Teacher- Student interaction, Student-Student interaction	Test/Assignment	5
6. Making reservation, appointments, and complaints	3	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Assignment	1, 2
7. Giving direction and instructions	3	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Assignment	2, 3
8. Giving opinions and suggestions	3	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Assignment	3
9. Understanding intonation, pronunciation practice	6	Teacher- Student interaction, Student-Student interaction	Test/ Presentation / Assignment	4

10. Understanding the main idea of an argument and arguing on a particular topic	3	Teacher- Student interaction, Student- Student interaction	Test/ Presentation / Assignment	1, 5
11. Describing situations, people, places	3	Teacher- Student interaction, Student- Student interaction	Test/ Presentation / Assignment	1
12. Understanding content presented in English in various media utilized in the academic environment	6	Teacher- Student interaction, Student- Student interaction	Test/ Presentation / Assignment	1, 4
13. Summarizing Oral Presentation	3	Teacher- Student interaction, Student- Student interaction	Test/ Presentation / Assignment	1, 3

Textbook(s)

New Headway Upper Intermediate/ Advanced: Liz Soars, John Soars

Reference(s)

1. *New English File Upper Intermediate/ Advanced* : Clive Oxenden, Christina Latham-Koenig, and Paul Seligson
2. *New Inside Out: Sue Kay and Vaughan Jones*
3. *English Pronunciation – Stress and Intonation: Jill McMillan*
4. *Better English Pronunciation: J. D. O'Connor*
5. *Oxford Advanced Learner's Dictionary: OUP*

Assessment and Evaluation

Bloom's Category	Class Performance	1 st Term	Mid-term	Final	Total
Remember		05	05	05	15
Understand	03	05	05	05	18
Apply	03	05	05	10	28
Analyze		05		05	10
Evaluate			05	05	10
Create	04		10	10	19
Total	10	20	30	40	100

Grading System: As per UGC recommendation

ENG0114-102: READING SKILLS

Credit Hours: 3

Rationale of the Course:



The course will help the students to be fluent readers within and outside their comfort zone and overcome troubling issues in reading by equipping the learners with various techniques and classroom exercises.

Course Objective

This course includes intense reading strategies and skills with an emphasis on increased reading comprehension rate and faster reading speed. This course involves the study of critical reading, comprehension and metacognition, namely what are our brains doing while our eyes are looking at the text. It is designed to enhance the student's success in reading more complex passages with an increased level of comprehension and confidence, preparing them to do well in their academic reading.

Course Learning Outcomes (CLOs)

At the end of the course, students will be able to:

CLO1	ability to read and interpret textbooks and other assigned material
CLO2	making connections, engaging with the text, active meaning construction, monitoring understanding, analysis and synthesis, and critical reading
CLO3	ability to form a basic core of reading skills and apply these skills in an extensive reading environment

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	2	2	4	1
CLO2	1	3	2	3	1
CLO3	1	3	3	3	3
CLO4	1	2	3	2	3
CLO5	1	2	3	2	3
CLO6	1	2	3	2	3
Average	1.5	2.5	3	3	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs:

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Basic reading theories & techniques Skimming, scanning, reading speed per minute, eye-reading, comprehension rate, intensive & extensive reading etc. Practice Reading.	6	Lecture, Practice, and Feedback	Test & Quiz	1
2. Extracting Main Ideas Distinguishing between important and unimportant information	3	Lecture, Practice, and Feedback	Test & Quiz	2

3. Reading for Specific information	3	Lecture, Practice, and Feedback	Test & Quiz	2, 3
4. Understanding Text organization	3	Lecture, Practice, and Feedback	Test & Quiz	3
5. Predicting	3	Lecture, Practice, and Feedback		3
6. Checking Comprehension	3	Lecture, Practice, and Feedback	Test & Quiz	3
7. Inferring	3	Lecture, Practice, and Feedback	Test & Quiz	2
8. Dealing with unfamiliar words	3	Lecture, Practice, and Feedback	Test and Quiz	2
9. Linking Ideas	3	Lecture, Practice, and Feedback	Test	3
10. Understanding Complex Sentences	3	Lecture, Practice, and Feedback	Test	3
11. Understanding Writer's Style	3	Lecture, Practice, and Feedback	Test	3
12. Evaluating the text	3	Lecture, Practice, and Feedback	Test	3
13. Reacting to the text	3	Lecture, Practice, and Feedback	Test	3
14. Writing summary of a text	3	Lecture, Practice, and Feedback	Test	3

Textbook(s)

Greenall, S., & Swan, M. (1986). *Effective reading student's book: Reading skills for advanced students* (Vol. 1). Cambridge University Press.

Reference(s)

1. Rupley, W. H., Blair, T. R., & Nichols, W. D. (2009). Effective reading instruction for struggling readers: The role of direct/explicit teaching. *Reading & Writing Quarterly*, 25(2-3), 125-138.



2. Glendinning, E. H., & Holmström, B. (2004). *Study reading: A course in reading skills for academic purposes*. Cambridge University Press.
3. Zemach, D. (2010). *Building Academic Reading Skills/book 2*. University of Michigan Press.
4. Glover, A.J. Build Up Your English. Littlehampton Book Services Ltd.
5. Alexander, L.G. Fluency in English. Longman Group Ltd.

Supplementary Reading(s)

1. Montgomery, M., Durant, A., Fabb, N., Furniss, T., & Mills, S. (2007). *Ways of reading: Advanced reading skills for students of English literature*. Routledge.
2. Sam McCarter & Norman Whitby: Reading Skills. Macmillan Education.
3. Liz Soars. Head way Series. Oxford University Press.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term (Test)	Final-term (Test)	Total
Remember		10	05	05	20
Understand	05		05	10	20
Apply			05	15	20
Analyze			05	10	15
Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation

BUS-0114-105: BUSINESS COMMUNICATION

Credit Hours: 3

Rationale of the Course:

The course will facilitate the students to learn various corporate correspondences which are crucial to thrive and grow in this rapidly changing, highly competitive, diverse business environment through hands-on tasks.

Course Objective

This course aims to help you develop the proficiency needed to succeed in today's technologically enhanced workplace by focusing on the development of professional oral and written communication skills. Having good oral communication and writing skills are imperative in today's workplace. In the past, business people may have written couple of business letters a month, but now they can receive and send hundreds of email messages weekly. Their writing skills are showcased in every message they send. As well, with the arrival of video conferencing, large-scale meetings are possible with increased frequency. Through this course, you will improve your letter, email and report and presentation skills.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand the importance of being an effective business communicator in today's changing workplace.
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CLO2	Write a polished resume and cover letter
CLO3	Create and maintain a proper LinkedIn profile
CLO4	Speak publicly impromptu and on a predetermined topic
CLO5	Present professionally using various applications

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	1	3	2	1
CLO2	3	3	3	3	1
CLO3	2	3	3	3	1
CLO4	1	2	3	2	1
CLO5	2	3	3	3	1
Average	2.0	2.4	3.0	2.6	1.0

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Communication for Digital Age Career Effective Listening-Nonverbal Communication-Culture and Communication-Miscommunication	3	Lecture and Class Participation	Test	1
2. Emails To/CC/BCC-Subject Line-Greetings-Body-Closing-Signature-Replying with Down Editing-Vacation Responder-Labels-Attachments-Templates	9	Lecture, Class Participation-Practice	Test	2
3. Business Letter Cover Letter-Positive Message-Negative Message-Direct Strategy-Indirect Strategy	9	Lecture and Class Participation-Practice	Test	2, 3
4. CV-Resume Career Portfolio-LinkedIn-Elevator Pitch	3	Lecture and Class Participation-Practice	Test	3, 4
5. Public Relations and Press Release	3		Test	2
6. Public Speaking	6	Lecture and Practice	Presentation	5
7. Impromptu Speaking	6	Lecture and Practice	Presentation	5
8. Presentation	6	Practice	Presentation	5

Textbook(s)



Guffey, M. E., & Loewy, D. (2016). *Essentials of business communication* (10th ed.). Boston, MA: Cengage Learning.

Assessment and Evaluation

Bloom's Category	Attendance	Assignment	Class Tests	Mid-Term Exam	Final Exam	Total
Remember			10			10
Understand	05	05	10	05	05	30
Apply				05	05	10
Analyze		05	10	05	05	25
Evaluate	05				05	10
Create		10			05	15
Total	10	20	30	15	25	100

Grading System: As per UGC recommendation

ENG-0114-106: ADVANCED ENGLISH SKILLS

Credit Hours: 3

Rationale of the Course:

The course will train the students beyond primary English skills in order to orient them with applied communication with a view to making them ready for real-life business correspondence situations.

Course Objective

This is an integrated-learning course which covers Listening, Speaking, Reading and Writing skills and designs to develop students' confidence and spontaneity in using English in various communication situations, both formal and informal. The focus of the course is on the functional and interactive aspects of the English language acquisition. At the end of the course students will feel competent enough to communicate in a variety of academic and social contexts.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	develop reading skills through extensive reading
CLO2	paraphrase information from academic sources distinguishing between main ideas, understanding topic and its details effectively and accurately
CLO3	use strategies to listen actively to understand the other persons point of view and to respond with empathy
CLO4	give oral presentations in English both in terms of fluency and comprehensibility
CLO5	improve public speaking abilities in English, by giving the opportunities to speak in the class, both informally and formally
CLO6	develop the awareness of correct usage of English grammar in writing and speaking parallelly
CLO7	increase awareness of using correct etiquette in academic writing

Mapping of CLOs to PLOs



	PL01	PL02	PL03	PL04	PL05
CLO1	2	3	1	1	2
CLO2	3	2	3	3	3
CLO3	3	3	2	3	3
CLO4	1	2	3	2	1
CLO5	3	3	1	3	3
CLO6	3	3	3	3	3
CLO7	2	3	2	2	2
Average	2.43	2.71	2.0	2.43	2.43

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Discussion on the basic strategies of Reading Skimming, Scanning	3	Classroom Lectures, doing Classwork from referred texts, Feedback	Lecture & Class Test	CLO1
2. Understanding topic and topic sentence in the passage, find specific information in reading passage	3	Classroom Lectures, doing Classwork from referred texts, Feedback	Lecture & Class Test	CLO2
3. Comprehending relationships between ideas Analyzing written discourse in terms of content, genre	3	Classroom Lectures, doing Classwork from referred texts, Feedback	Lecture	CLO2
4. Listening for main ideas and specific information understanding of speaker's purpose and attitude	3	Classroom lectures on the tips and strategies of Listening information properly, Classwork on Listening Practice and Feedback	Lecture & Class Test	CLO3
5. Understanding spoken data in order to make inferences draw conclusion, identifying stressed words and reductions	3	Classwork on Listening Practice and Problem solution in the class	Lecture	CLO3
6. Listening to obtain and give information greetings, classroom interaction	3	Classwork on Listening Practice and Feedback	Oral Assessment	CLO3
7. Learning how to express ideas and opinions clearly	6	Classroom Lectures, practice on oral presentation in the class, Feedback	Lecture with presentation	CLO4

8. Learning how to organize a friendly class debate with examples	3	Classroom lectures on the pros and cons of a friendly class debate with examples	Lecture With presentation	CLO5
9. Learning how to use vocabulary appropriately Producing accurate grammatical forms in writing a paragraph	6	Classroom Lectures on the rules of writing a paragraph, Doing Classwork, Feedback	Lecture & Class Test	CLO6
10. Learning to Electronic communication Formal E-mail etiquette	3	Classroom Lectures and presentation on the formal e-mail writing with proper etiquette, doing Classwork, Feedback	Lecture& Class Test	CLO7
11. Learning how to write meeting minutes Meetings Terminology	3	Classroom Lectures on the rules of writing a Meeting minutes, doing Classwork, Feedback	Lecture& Class Test	CLO7
12. Learning how to write a Cover Letter	3	Classroom Lectures on the rules of writing a Cover Letter, doing Classwork, Feedback	Lecture with Presentation	CLO7
13. Learning how to write a Newspaper report	3	Classroom Lectures on the rules of writing a Newspaper Report, doing Classwork, Feedback	Lecture & Class Test	CLO7

Textbook(s)

Hartman, Pamela & James Mentel. *A Reading/Writing Book*.

Reference(s)

1. Ediger, Anne & Pavlik, Cheryl. Reading Connections
2. Pinto, Xavier (edited). Art of Effective Writing English
3. Judith Tanka, Paul Most, Lida R. Baker. Interactions 1: Listening/Speaking (BK,1) Mc Graw Hill
4. Raymond, Murphy. Intermediate English Grammar. Cambridge University Press
5. Swan M. Practical English Usage. Oxford University Press
6. Liz, Soars, Head way Series, Oxford University Press
7. Greenall, S. and Swan M. Effective Reading, Cambridge University Press



Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term (Test)	Final term (Test)	Total
Remember		10	05	05	20
Understand	05		05	10	20
Apply			05	15	20
Analyze			05	10	15
Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation

Computer Skills

CAB-0611-101: COMPUTER APPLICATIONS IN BUSINESS

Credit Hours: 3

Rationale of the Course

Through this course, students will gain the essential theoretical and practical knowledge on computer applications used in everyday life, education & learning and business professions. Special emphasis will be put on word processing, spreadsheets, presentation, file management, content creation, database, network management, e-commerce and other integrated applications.

Course Objective

The purpose of this course is to familiarize students with computer terminology, hardware, and software related to the business environment. This course aims to develop students' digital literacy skills to find, use, summarize, evaluate, create, and communicate information using business productivity software applications, and other business oriented digital technologies.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Make the students aware about the important link between computers and business
CLO2	Prepare business presentations using text, graphics and/or sound
CLO3	Prepare business documents using Microsoft Word, Excel and Power Point

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	1	2
CLO2	3	3	3	2	2
CLO3	3	3	3	3	1



Average	3	3	3	2	1.67
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(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLO
1. Introductory Session	1.5	Lecture	Test and Exam	1
2. Computer Systems	1.5	Lecture	Test and Exam	1, 2, 3
3. Looking Inside the Computer System	1.5	Lecture	Test and Exam	1, 2
4. Interacting with the Computer: Part I	1.5	Lecture	Test and Exam	1, 2
5. Interacting with the Computer: Part II	1.5	Lecture	Test and Exam	2, 3
6. Types of Software: Part I	1.5	Lecture	Test and Exam	2, 3
7. Types of Software: Part II	1.5	Lecture	Test and Exam	2, 3
8. Types of Software: Part III	1.5	Lecture	Test and Exam	2, 3
9. Graphics, Multimedia and Networking: Part I	1.5	Lecture	Test and Exam	2, 3
10. Graphic, Networking and Multimedia: Part II	1.5	Lecture	Test and Exam	2, 3
11. Briefing Session 1: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3
12. Microsoft Word: Practical I	1.5	Lecture and Practical	Test and Exam	2, 3



13. Class Test # 1 and Feedback	1.5	Lecture	Test	1
14. Seeing, Hearing and Printing Data	1.5	Lecture	Test and Exam	2, 3
15. Microsoft Word: Practical II	1.5	Lecture and Practical	Test and Exam	2, 3
16. Doing Business in the Online World	1.5	Lecture	Test and Exam	1, 2, 3
17. Mid-Term Exam	1.5	Lecture	Exam	1
18. Briefing Session 2: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3
19. Security Measures: Part I	1.5	Lecture	Test and Exam	1, 2, 3
20. Security Measures: Part II	1.5	Lecture	Test and Exam	1, 2, 3
21. Types of Storage Devices	1.5	Lecture	Test and Exam	1, 2, 3
22. Database Management Systems	1.5	Lecture	Test and Exam	1, 2, 3
23. Microsoft Excel: Practical I	1.5	Lecture and Practical	Test and Exam	2, 3
24. Microsoft Excel: Practical II	1.5	Lecture and Practical	Test and Exam	2, 3
25. Microsoft Power Point: Practical Part I	1.5	Lecture and Practical	Test and Exam	2, 3
26. Microsoft Power Point: Practical II	1.5	Lecture and Practical	Test and Exam	2, 3

27. Class Test # 2 and Feedback	1.5	Lecture	Test	1
28. Briefing Session 3: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3
29. Group Presentation Session # 1	1.5	Participation	Presentation	1, 2, 3
30. Group Presentation Session # 2	1.5	Participation	Presentation	1, 2, 3

Textbook(s)

Introduction to Computers (2011) Seventh Edition, Peter Norton

Reference(s)

1. Discovering Computers: Digital Technology, Data, and Devices.
2. Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell, and Mark Frydenberg.

Assessment and Evaluation

Bloom's Category	Attendance (10)	Assignment (10)	Presentation (10)	Class Tests (30)	Mid-Term Exam (15)	Final Exam (25)	Total (100)
Remember				10			10
Understand	05	05	05	10	05	05	35
Apply					05	05	10
Analyze				10	05	05	20
Evaluate	05		05			05	15
Create		05				05	10

Grading System: As per UGC recommendation

DTB -0613-101: DIGITAL TRANSFORMATION IN BUSINESS

Credit Hours: 3

Course Rationale:

The course familiarizes students with the basic information system components to formulate digital transformation strategies based on internal and external environmental scanning. It will also help the future managers to evaluate and choose effective information systems for the organizations to compete and survive in a fast-changing world.



Course Objective

This course presents students to the application of Information Systems (IS) in business and society. It aims to provide students an appreciation of how modern-day and emerging technologies impact the management of businesses, relationships that businesses have with external stakeholders, and products and services that businesses can offer.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Explain fundamental Information Systems (IS) components - hardware, software, data, processes and people
CLO2	Analyze both external business environment and internal business model components and processes and explain their importance in formulating digital transformation strategies.
CLO3	Propose how organizations could leverage on IS systems and tools to achieve organizational efficiency and effectiveness and compete in a global marketplace
CLO4	Evaluate the suitability of various IS infrastructure options

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	1	1	2	1
CLO2	3	1	3	2	3
CLO3	2	3	3	3	1
CLO4	3	3	3	3	1
Average	2.75	2	2.5	2.5	1.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.An invitation to digital transformation of business	6	Lecture Class participation	Assignment & Test	1
2.The information age accelerates	6	Lecture Case Analysis	Assignment & Test	1, 2
3.The elastic cloud	6	Lecture Group Discussion	Assignment & Test	2, 3
4.Big data	6	Lecture Team project Case Analysis	Test & Quiz	2, 3
5.The AI renaissance	6	Lecture Case analysis	Test & Quiz	2, 3
6.The internet of things	6	Lecture Case Analysis	Test & Quiz	2, 3
7.The digital enterprise and CEO action plan	9	Lecture Case Analysis Team Project	Test and Quiz	1,2, 3, 4

		Group presentation		
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Textbook(s)

Siebel, T. M. (2019). Digital transformation: Survive and thrive in an era of mass extinction, Rosetta Books, USA.

Reference(s)

1. Rogers, D. L. (2016). The digital transformation playbook: Rethink your business for the digital age, Columbia Business School Publishing, USA.

Assessment and Evaluation

Bloom's Category	Class attendance and participation	Assignments/ Case Analysis/ Presentation	Quizzes	Mid-Term (Test)	Final-Term (Test)	Total
Remember	10		05			15
Understand	10		05	05		20
Apply		05		05	05	15
Analyze		05	10	05	05	25
Evaluate		05		05	05	15
Create		05			05	10
Total	20	20	20	20	20	100

Grading System: As per UGC recommendation

Numeracy

BUS-0542-211: BUSINESS STATISTICS

Credit Hours: 3

Rationale of the Course:

The course will introduce statistics to the students from a business perspective and help them to get acquainted with basic statistical functions widely used in business operations.

Course Objective:

This course will introduce freshman and/or sophomore business students with basic statistical concepts and methods in business applications. It will orient the business students with a new way of looking into data and appreciate its importance. Besides students will also learn to perform rudimentary statistical functions; interpret and communicate the statistical results.

Course Learning Outcomes (CLO):

At the end of the course, students will be able to:

CLO1	Have idea to explain basic statistical concepts.
CLO2	Acquire required knowledge to solve simple tasks using statistical parameters.
CLO3	Get acquainted with some fundamental statistical data analysis and interpretation.



Mapping of CLOs to PLOs:

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	1	2	3	3
CLO2	2	3	3	3	3
CLO3	2	3	3	3	3
Average	2	2.33	2.67	3	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Introduction	1.5	Lecture and Class Participation	Test	1
2.Collection & Presentation of Data Sources of Data- Designing the Questionnaire-Variety Types of Questionnaire- Key Points of Designing a Questionnaire- Pre-testing the Questionnaire- Classification of Data-Types of Classification- Formation of Frequency Distribution- Classification according to Class Interval- Exclusive and Inclusive Methods.	4.5	Lecture and Class Participation	Test & Assignment	1
3. Measures of Central Tendency Importance of central tendency- types of central tendency measurement-Arithmetic Mean-Median-Mode-combined Mean-Correction mean-Weighted Mean-Quartiles-Deciles-Percentiles.	6	Lecture and Class Participation-Practice	Mid-Term Exam	2
4. Measures of Variations Significance of Measuring Variation-Absolute and Relative measures of variation-Range-Interquartile Range-Quartile Deviation-Average Deviation-Standard Deviation-Variance-Coefficient of Variance-Lorenz Curve.	6	Lecture and Class Participation-Practice	Mid-Term Exam	2
5. Skewness, Moments and Kurtosis				

Measure of Skewness- Karl Pearson's coefficient of skewness, Bowley's coefficient of skewness-Kelly's coefficient of skewness-Moments about Mean and Arbitrary Point-Finding central moments from Moments about Arbitrary Point-Measures of Kurtosis	6	Lecture and Class Participation-Practice	Mid-Term Exam	2
6. Correlation Analysis Significance of the study of Correlation-Types of Correlation-Methods of Correlation-Scatter Diagram Method-Karl Pearson's Coefficient of Correlation-Probable Error-Rank Correlation Coefficient- Least Squares.	6	Lecture and Class Participation-Practice	Final-Term Exam	3
7. Regression Analysis The Linear Bivariate Regression Model-Regression Lines-Regression Equations-Regression Coefficients-Properties of the Regression Coefficients-Regression Equations in Bivariate Grouped Frequency Distributions-Standard Error of Estimate-Coefficient of Determination.	6	Lecture and Class Participation-Practice	Final-Term Exam	3
8. Probability Distributions Probability Function- Expected Value & Variance-Binomial Distribution- Poisson Distribution-Normal Distribution-Exponential Distribution	3	Lecture and Class Participation-Practice	Final-Term Exam	2 & 3
9. Sampling Distributions Principles of Sampling-Methods of Sampling-Limitations of Sampling- Sampling & Non-Sampling Errors-Central Limit Theorem -Relationship between Population, Sample and Sampling Distributions.	3	Lecture and Class Participation-Practice	Final-Term Exam	2 & 3
10. Test of Hypothesis Procedures of Hypothesis Testing- Type I and Type II Errors- One-Tailed and Two-Tailed Tests- Test of Hypothesis concerning Large Samples	3	Lecture and Class Participation-Practice	Final-Term Exam	2 & 3

Textbook(s)

1. Gupta, S. P., & Gupta, M. P. Business statistics. Sultan Chand & Sons. (19th Edition)

Reference(s)

1. Mason, R.D., Lind, D.A., & Marchal, W.G. Statistical Techniques in Business and Economics. Irwin McGraw-Hill.
2. J. Crawshaw., & J. Chambers. A Concise Course in Advanced Level Statistics. (4th Edition)

Assessment and Evaluation:

Bloom's Category	Assignment & Class Performance	Test/Quiz	Mid Exam	Final Exam	Total
Remember	5	2	4	4	15
Understand	5	3	4	4	16
Apply	5	4	8	8	25
Analyze		4	7	7	18
Evaluate		4	4	4	12
Create	5	3	3	3	14
Total	20	20	30	30	100

Grading System: As per UGC recommendation

MAT-0021-101: INTERMEDIATE MATHEMATICS

Credit Hours: 3

Rationale of the course:

This course will enable students to apply mathematics in real-life contexts including identifying relevant information, formulating problems in appropriate mathematical terms, selecting and applying tools correctly, finding solutions, and interpreting solutions in the context of a problem.

Course Objective

Goal of this course is to create proficiency on the fundamental concepts of mathematics and its application in business decision making. The objectives of this course are to teach the application of basic mathematical tools in business and to learn the mathematical techniques so that the students will be able to solve the various real life business problems.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Acquire knowledge to explain the theory of sets, numbers as well as operation and algebra of sets.
CLO2	Demonstrate the ability to solve the differentiation coefficient, partial differentiation of a given function and apply the chain rule, optimization and curve sketching.
CLO3	Evaluate the Integrals associated with different type of functions with the application of integration



CLO4	Understand and explain the basic concepts of the types of functions.
CLO5	Apply the basic concepts to solve the different matrices form and linear equation
CLO6	Compute the different functions related to coordinate geometry-straight line and circle.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	1	2	1	1	1
CLO2	1	2	1	1	1
CLO3	1	2	1	1	1
CLO4	1	2	1	1	1
CLO5	1	2	1	1	1
CLO6	1	2	1	1	1
Average	1	2	1	1	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Set theory and theory of Numbers Sets, Notation, Finite and Infinite sets, Equality of Sets, Null Sets, Singleton, Subset, Proper subset, Comparability, Set of sets, Universal set, Power set, Disjoint set, Venn – Euler Diagram.	6	Classroom Lectures and Feedback	Class Test, Mid Term	1
2.Sets of number, Set operations, Algebra of sets, Application of the set theory Real numbers, Integers, Rational numbers, Natural numbers, Irrational Numbers, Intervals, Properties of Intervals, Infinite Intervals. Union, Intersection, Difference, Complement, Operations and Comparable Sets. Idempotent, Associative, Commutative, Distributive, Identity, Complement and De Morgan's Laws. Algebra of complex numbers.	6	Classroom Lectures and Feedback	Class Test, Mid Term	1
3.Differentiation The meaning of derivative; Standard derivatives; Product rule, quotient rule and chain rule;	6	Classroom Lectures and Feedback	Class Test, Mid Term, Final Exam	2

Optimization; Curve sketching; Economic applications of the derivative: marginal and profit maximization.				
4.Integration Indefinite integrals; Definite integrals; Standard integrals; Substitution method; Integration by parts; Partial fractions; Economic applications of integration: Determination of total cost from marginal cost and cumulative changes.	6	Classroom Lectures and Feedback	Mid Term,	3
5.Function Function, Function types, Domain, range of a function, polynomial function, Explicit and Implicit function, Limit of a function, Continuous and discontinuous functions	3	Classroom Lectures and Feedback	Final Exam	4
6.Matrices and linear equations Types of matrices, operations of matrices, properties of matrices, solution of different matrix function, System of linear equations and their expression in matrix form; Solving systems of linear equations using row operations (in the case where there is a unique solution); Some economic/managerial applications of linear equations.	9	Classroom Lectures and Feedback	Assignment, Final Exam	5
7.Coordinate Geometry, Coordinates and Locus, Straight Line, Circle Definition of Cartesian, Polar and spherical coordinate systems, Distance between two points. Definition of function, Equation of a straight line, Slope of a line, Finding slope, Equation in slope form, Intercept form, Linear equation and Angle between two lines. General Equation of circle, Tangent at a given point and Tangent from an outside point	9	Classroom Lectures and Feedback	Assignment, Final Exam	6

Textbook(s)

V K Kapoor and D C Sancheti, "Business Mathematics", Latest Edition



Reference(s)

1. Qazi Zameeruddin, V K Khanna and S K Bhambri, "Business Mathematics", Latest Edition
2. Robert Smedley, Gary Wiseman, Introducing Pure Mathematics, Oxford Publishing
3. H. Anton, C. Bivens and S. Davis, "Calculus"

Assessment and Evaluation

Bloom's Category	Attendance	Assignment	Class Tests	Mid-Term Exam	Final Exam	Total
Remember			10			10
Understand	05	05	10	05	05	30
Apply				05	05	10
Analyze		05	10	05	05	25
Evaluate	05				05	10
Create		10			05	15
Total	10	20	30	15	25	100

Grading System: As per UGC recommendation

Natural Sciences**ENV-0521-111: Introduction to Environmental Science**

Credit Hours: 3

Rationale of the Course

The course will help to develop the understanding of the students about their surrounding physical environment.

Course Objective

The course provides an overview of the interactions among the physical, chemical and biological components of the environment, with a focus on degradation of the environment related to human activities. It is an interdisciplinary subject that applies knowledge from other disciplines such as economics, law and social sciences.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Make the students aware about the important link between environment and society
CLO2	Highlight the importance of environmental issues and factors in maintaining a healthy and productive life.
CLO3	Allow the students to understand that environment is not only a scientific issue, but an important human concern as well

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	2	2	2	1



CLO2	2	2	3	2	1
CLO3	1	2	2	2	1
Average	1.67	2	2.33	2	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics		Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLO
Session # 1	Introductory Session	1.5	Lecture	Test and Exam	1
Session # 2	Environmental Problems and Sustainable Development	1.5	Lecture	Test and Exam	1, 2, 3
Session # 3	Ecosystems and Biodiversity: Part I	1.5	Lecture	Test and Exam	1, 2
Session # 4	Ecosystems and Biodiversity: Part II	1.5	Lecture	Test and Exam	1, 2
Session # 5	Human Population and Urbanization	1.5	Lecture	Test and Exam	1, 2, 3
Session # 6	Air Pollution	1.5	Lecture	Test and Exam	1, 2, 3
Session # 7	Wildlife Trafficking	1.5	Lecture	Test and Exam	1, 2, 3
Session # 8	Water Resources and Water Pollution	1.5	Lecture	Test and Exam	1, 2, 3
Session # 9	Briefing Session 1: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3
Session # 10	Environmental Resources: Energy	1.5	Lecture	Test and Exam	1, 2, 3
Session # 11	Environmental Resources: Minerals	1.5	Lecture	Test and Exam	1, 2, 3
Session # 12	Class Test # 1 and Feedback	1.5	Lecture	Test	1

Session # 13	Disasters Part I: Natural Disasters	1.5	Lecture	Test and Exam	1, 2, 3
Session # 14	Disasters Part II: Man- made Disasters	1.5	Lecture	Test and Exam	1, 2, 3
Session # 15	Solid and Hazardo us Waste Manage ment: Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 16	Solid and Hazardo us Waste Manage ment: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Sess ion # 17	Mid- Term Exam	1 . 5	Lecture	Exam	1
Sess ion # 18	Briefing Session 2: Group Assignm ent	1 . 5	Lecture and Particip ation	Assign ment	2, 3
Sess ion # 19	Sound Pollution	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 20	Food Producti on and the Environ ment: Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 21	Food Producti on and the	1 . 5	Lecture	Test and Exam	1, 2, 3

	Environ ment: Part II				
Session # 22	Environm ental Impact Assessm ent (EIA): Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 23	Environm ental Impact Assessm ent (EIA): Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Sess ion # 24	Climate Disruptio n and Ozone Depletio n: Part I	1 . 5	Lecture	Test and Exam	2, 3
Sess ion # 25	Climate Disruptio n and Ozone Depletio n: Part II	1 . 5	Lecture	Test and Exam	2, 3
Ses sio n # 26	Electroni c Waste	1 . 5	Lecture	Test and Exam	2, 3
Ses sio n # 27	Class Test # 2 and Feedback	1 . 5	Lecture	Test	1
Ses sio n # 28	Briefing Session 3: Group Assignm ent	1 . 5	Lecture and Particip ation	Assign ment	2, 3
Ses sio n # 29	Group Presentat ion	1 . 5	Particip ation	Present ation	1, 2, 3

	Session # 1				
Ses sio n # 30	Group Presentat ion Session # 2	1 · 5	Particip ation	Present ation	1, 2, 3

Textbook(s)

Living in the Environment (2012) 17th Edition, G. Tyler Miller and Scott E. Spoolman

Reference(s)

Environmental Science: A Global Concern (2018) 14th Edition, William P. Cunningham and Mary Ann Cunningham

Assessment and Evaluation

Bloom's Category	Attendance (10)	Assignment (10)	Presentation (10)	Class Tests (30)	Mid- Term Exam (15)	Final Exam (25)	Total (100)
Remember				10			10
Understand	05	05	05	10	05	05	35
Apply					05	05	10
Analyze				10	05	05	20
Evaluate	05		05			05	15
Create		05				05	10

Grading System: As per UGC recommendation

PHY-0533-111: PHYSICS

Credit Hours: 3

Rationale of the course:

The course strengthens quantitative reasoning and problem-solving skills of students those are valuable in areas beyond physics.

Course Objective

The main goals of the course are to: increase students' understanding of natural laws in mechanics, electromagnetism, thermal physics, and optics; develop students' curiosity about physical phenomena and enhance students' problem solving and critical thinking skills; enhance students' language proficiency in the domain of scientific discourse, gain an understanding on Physics and its application to everyday life.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Make the students aware about the overall importance of physics
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CLO2	Highlight the importance of physics in maintaining a functional society
CLO3	Allow the students to understand that physics is not only a scientific issue, but an important human concern as well

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	2	2	2	1
CLO2	2	2	3	2	1
CLO3	1	2	2	2	1
Average	1.67	2	2.33	2	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

	Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLO
Session # 1	Introductory Session	1.5	Lecture	Test and Exam	1
Session # 2	Introduction to Physics	1.5	Lecture	Test and Exam	1, 2, 3
Session # 3	Potential Energy and Conservation of Energy: Part I	1.5	Lecture	Test and Exam	1, 2
Session # 4	Potential Energy and Conservation of Energy: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 5	Potential Energy and Conservation of Energy: Part III	1.5	Lecture	Test and Exam	1, 2, 3
Session # 6	Newton's Laws of Motion: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 7	Newton's Laws of Motion: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 8	Newton's Laws of Motion: Part III	1.5	Lecture	Test and Exam	1, 2, 3

Session # 9	Work, Energy and Momentum: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 10	Work, Energy and Momentum: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 11	Briefing Session 1: Assignment	1.5	Lecture and Participation	Assignment	2, 3
Session # 12	Work, Energy and Momentum: Part III	1.5	Lecture	Test and Exam	1, 2, 3
Session # 13	Class Test # 1 and Feedback	1.5	Lecture	Test	1
Session # 14	Rotation	1.5	Lecture	Test and Exam	1, 2, 3
Session # 15	Temperature and Heat: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 16	Temperature and Heat: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 17	First Law of Thermodynamics	1.5	Lecture	Test and Exam	1, 2, 3
Session # 18	Mid-Term Exam	1.5	Lecture	Exam	1
Session # 19	Briefing Session 2: Assignment	1.5	Lecture and Participation	Assignment	2, 3
Session # 20	Second Law of Thermodynamics	1.5	Lecture	Test and Exam	1, 2, 3
Session # 21	Waves and Vibrating Bodies: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 22	Waves and Vibrating Bodies: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 23	Nature and Propagation of Light: Part I	1.5	Lecture	Test and Exam	1, 2, 3

Session # 24	Nature and Propagation of Light: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 25	Interference and Diffraction: Part I	1 . 5	Lecture	Test and Exam	2, 3
Session # 26	Interference and Diffraction: Part I	1 . 5	Lecture	Test and Exam	2, 3
Session # 27	Class Test # 2 and Feedback	1 . 5	Lecture	Test	1
Session # 28	Briefing Session 3: Assignment	1 . 5	Lecture and Participation	Assignment	2, 3
Session # 29	Course Summary Session # 1	1 . 5	Participation	Exam	1, 2, 3
Session # 30	Course Summary Session # 2	1 . 5	Participation	Exam	1, 2, 3

Textbook(s)

Hugh D. Young . University Physics with Modern Physics. Pearson.

Reference(s)

James S. Walker. Physics. Pearson.

Assessment and Evaluation

Bloom's Category	Attendance	Assignment	Class Tests	Mid-Term Exam	Final Exam	Total
Remember			10			10
Understand	05	05	10	05	05	30
Apply				05	05	10
Analyze		05	10	05	05	25
Evaluate	05				05	10
Create		10			05	15
Total	10	20	30	15	25	100

Grading System: As per UGC recommendation



PSY-0303-111: PSYCHOLOGY**Credit Hours: 3****Rationale of the course:**

This course will allow students to demonstrate acquisition of both factual knowledge of psychology and the ability to conceptualize and apply the knowledge to their own behavior, to ways of interacting with others, and to their roles in culture and society.

Course Objective

The course will examine the different models upon which modern psychology has been built, along with such things as the history and origins of psychology, research methods, biological aspects of psychology, human development, perception, consciousness, learning, personality theory, and psychological disorders.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Make the students aware about the overall importance of psychology
CLO2	Highlight the importance of psychology in maintaining a functional society
CLO3	Allow the students to understand that psychology is not only a scientific issue, but an important human concern as well

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	2	2	2	1
CLO2	2	2	3	2	1
CLO3	1	2	2	2	1
Average	1.67	2	2.33	2	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics		Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLO
Session # 1	Introductory Session	1.5	Lecture	Test and Exam	1
Session # 2	Introduction to Psychology: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 3	Introduction to Psychology: Part II	1.5	Lecture	Test and Exam	1, 2



Session # 4	Biological Aspects of Psychology: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 5	Biological Aspects of Psychology: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 6	Biological Aspects of Psychology: Part III	1.5	Lecture	Test and Exam	1, 2, 3
Session # 7	Perception: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 8	Perception: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 9	Perception: Part III	1.5	Lecture	Test and Exam	1, 2, 3
Session # 10	Briefing Session 1: Assignment	1.5	Lecture and Participation	Assignment	2, 3
Session # 11	Class Test # 1 and Feedback	1.5	Lecture	Test	1
Session # 12	Psychology of Learning: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 13	Psychology of Learning: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 14	Psychology of Learning : Part III	1.5	Lecture	Test and Exam	1, 2, 3
Session # 15	Psychology of Memory: Part I	1.5	Lecture	Test and Exam	1, 2, 3

Session # 16	Mid-Term Exam	1 . 5	Lecture	Exam	1
Session # 17	Briefing Session 2: Assignment	1 . 5	Lecture and Participation	Assignment	2, 3
Session # 18	Psychology of Memory: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 19	Psychology of Memory: Part III	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 20	Personality: Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 21	Personality: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 22	Personality: Part III	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 23	Motivation and Emotion: Part I	1 . 5	Lecture	Test and Exam	2, 3
Session # 24	Motivation and Emotion: Part II	1 . 5	Lecture	Test and Exam	2, 3
Session # 25	Social Aspects of Psychology: Part I	1 . 5	Lecture	Test and Exam	2, 3
Session # 26	Social Aspects of Psychology: Part II	1 . 5	Lecture	Test and Exam	2, 3

Sess ion # 27	Class Test # 2 and Feedbac k	1 . 5	Lecture	Test	1
Sess ion # 28	Briefing Session 3: Assignm ent	1 . 5	Lecture and Participa tion	Assignm ent	2, 3
Sess ion # 29	Group Presenta tion Session # 1	1 . 5	Participat ion	Presenta tion	1, 2, 3
Sess ion # 30	Group Presenta tion Session # 2	1 . 5	Participat ion	Presenta tion	1, 2, 3

Textbook(s)

Bernstein, D. A. Penner, L. A., Clarke-Stewart, A., & Roy, E. J. Psychology. USA: Cengage Learning Inc.

Reference(s)

1. Zimbardo, P. G. Johnson, R. L. & Vivian, M. Psychology: Core Concepts. Pearson.
2. Baron, R. A. Psychology. Pearson.

Assessment and Evaluation

Bloom's Category	Attendance (10)	Assignment (10)	Presentation (10)	Class Tests (30)	Mid- Term Exam (15)	Final Exam (25)	Total (100)
Remember				10			10
Understand	05	05	05	10	05	05	35
Apply					05	05	10
Analyze				10	05	05	20
Evaluate	05		05			05	15
Create		05				05	10

Grading System: As per UGC recommendation

Social Sciences

SOC-0314-111: INTRODUCTION TO SOCIOLOGY

Credit Hours: 3

Rationale of the course:



The course will develop students' ability to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

Course Objective

The course is designed to familiarize students to the sociological study of society including the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps discover and explain social patterns and see how such patterns change over time and in different settings.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Develop understanding of the fundamentals of sociological concepts and perspectives
CLO2	Summarize and evaluate complex arguments by key thinkers in the fields of Sociology and model attentiveness to matters impacting equality, social justice and the rights of all persons
CLO3	Gain the ability to apply domain specific knowledge to explain the contemporary issues in sociology in local, regional and global context
CLO4	Acquire the capacity of critical reflection on contemporary society along with the ability to disseminate knowledge through practice of independent reading, writing and other discursive practices
CLO5	Demonstrate a grasp of the reciprocal relationship between the individual and society developing a deep respect for all individuals regardless of race, gender, religion or sexual orientation

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	1
CLO2	3	3	2	3	1
CLO3	3	3	3	3	3
CLO4	3	2	3	2	1
CLO5	2	3	2	3	1
Average	2.8	2.8	2.6	2.6	1.4

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. The Sociological Perspective Sociology as a field of inquiry, The Sociological Perspective, Central Sociological Concepts, The Emergence of Sociology, Sociological Theory	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1

2. Research Methods The Research Process, Methods of Inquiry, Probability and Statistical Analysis, Research Ethics.	3	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1
3. Culture Group influence, The Social Construction of the Self, Characteristics and Elements of Culture, Cultural Diversity, Culture in Society.	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1
4. Socialization The Social Construction of the Self, Theories of Socialization, Agents of Socialization, Socialization over the Life Course.	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1
5. Social Organization Building Blocks, Social Differentiation, Ways of organizing cooperation, Historical and contemporary examples, Bureaucracy as a solution to weaknesses of kinship-based structures, Markets as social organizations (economic sociology).	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1 & 2
6. Social Inequalities Social Class and Social Stratification, Race and Ethnicity, Gender, Age.	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	1, 2 &3
7. Deviance and Conformity Sociological Definitions of Deviance, Costs and Benefits of Deviance, Deviant Identities, Measuring Crime, Race, Class, Gender, and Crime, Criminal Justice System.	6	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	3 & 4
8. Social Institutions Family, Education, Religion, Work, Economy, Power, Politics, and Government, Media and Culture, Health.	3	Lecturing with audio- visual aid and various Pair/ Group work	Written exam/report /assignment /presentation	3 & 4

9. Social Change Population, Urbanization and the Environment, Collective Behavior and Social Movements, Causes and Consequences of Social Change, Theories of Social Change.	3	Characteristic of social stratification	Written exam/report /assignment /presentation	3 & 4
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Textbook(s)

Giddens, A., Duneier, M., Appelbaum, R. P., & Carr, D. S. Introduction to Sociology. W.W. Norton & Company.

Reference(s)

1. Wolfe, C., & Callahan, J. S. (2017). Introduction to sociology. University System of Georgia.
2. Sutherland, R., & Woodward, J. Introduction to sociology. Chicago: Lippincott.
3. Cragun, R., & Cragun, D. Introduction to sociology. Seven Treasures Publication.

Assessment and Evaluation

Bloom's Category	Assignments and Participation	Exam 1	Mid-term	Final term	Total
Remember	05		05	05	15
Understand	05	05	05	05	20
Apply	05	05	05	05	20
Analyze	05	05	05	05	20
Evaluate		05	05	05	15
Create			05	05	10
Total	20	20	30	30	100

Grading System: As per UGC recommendation

HEA-0923-101: Health and Society

Credit Hours: 3

Rationale of the Course:

The course will help to develop the understanding of the students about the link between society and human health.

Course Objective

The course provides an overview of the relation between health and society. It explores how broad social, cultural and economic factors in society affect health. The course is designed to provide students with a way of thinking about human health from broader perspectives.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Make the students aware about the important link between health and society
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CLO2	Highlight the importance of social issues and factors in maintaining a healthy and productive life
CLO3	Allow the students to understand that health is not only a medical issue, but an important social concern as well

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	2	2	2	1
CLO2	2	2	2	2	1
CLO3	1	2	2	2	1
Average	1.67	2	2	2	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics		Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLO
Session # 1	Introductory Session	1.5	Lecture	Test and Exam	1
Session # 2	Health and Wellness	1.5	Lecture	Test and Exam	1, 2, 3
Session # 3	Disease and Health: A Holistic Perspective	1.5	Lecture	Test and Exam	1, 2, 3
Session # 4	Health and Environmental Hazards	1.5	Lecture	Test and Exam	1, 2, 3
Session # 5	Health and Safety: Part I	1.5	Lecture	Test and Exam	1, 2, 3
Session # 6	Health and Safety: Part II	1.5	Lecture	Test and Exam	1, 2, 3
Session # 7	Mental Health	1.5	Lecture	Test and Exam	1, 2, 3
Session # 8	Stigma	1.5	Lecture	Test and Exam	1, 2, 3



Session # 9	Briefing Session 1: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3
Session # 10	Stress Management	1.5	Lecture	Test and Exam	1, 2, 3
Session # 11	Bullying	1.5	Lecture	Test and Exam	1, 2, 3
Session # 12	Class Test # 1 and Feedback	1.5	Lecture	Test	1
Session # 13	Nutrition and Health	1.5	Lecture	Test and Exam	1, 2, 3
Session # 14	Food Contamination	1.5	Lecture	Test and Exam	1, 2, 3
Session # 15	Exercise and Weight Management	1.5	Lecture	Test and Exam	1, 2, 3
Session # 16	Addiction Part I: Substance Abuse	1.5	Lecture	Test and Exam	1, 2, 3
Session # 17	Mid-Term Exam	1.5	Lecture	Exam	1
Session # 18	Briefing Session 2: Group Assignment	1.5	Lecture and Participation	Assignment	2, 3

Session # 19	Addiction Part II: Technology Addiction	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 20	Technology in Health: Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 21	Technology in Health: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 22	Sleep and Health	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 23	Animal and Human Subject Research	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 24	Health Systems and Health Policy in the 21st Century	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 25	Ethical and Human Rights Concerns in Global Health: Part I	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 26	Ethical and Human Rights Concerns in Global Health: Part II	1 . 5	Lecture	Test and Exam	1, 2, 3
Session # 27	Class Test # 2 and	1 . 5	Lecture	Test	1

	Feedbac k				
Sess ion # 28	Briefing Session 3: Group Assignm ent	1 . 5	Lecture and Participa tion	Assignm ent	2, 3
Sess ion # 29	Group Presenta tion Session # 1	1 . 5	Participa tion	Presentat ion	1, 2, 3
Sess ion # 30	Group Presenta tion Session # 2	1 . 5	Participa tion	Presenta tion	1, 2, 3

Textbook(s)

Global Health 101 (2020) Fourth Edition, Richard Skolnik

Reference(s)

1. Introduction to Public Health (2017) Fifth Edition, Mary-Jane Schneider
2. Health The Basics (2019) Thirteenth Edition, Rebecca J. Donatelle

Assessment and Evaluation

Bloom's Category	Attendance (10)	Assignment (10)	Presentation (10)	Class Tests (30)	Mid- Term Exam (15)	Final Exam (25)	Total (100)
Remember				10			10
Understand	05	05	05	10	05	05	35
Apply					05	05	10
Analyze				10	05	05	20
Evaluate	05		05			05	15
Create		05				05	10

Grading System: As per UGC recommendation

ANT-0314-111: ANTHROPOLOGY

Credit Hours: 3

Rationale of the course:



This course aims to construct a holistic understanding of the human species among students through integrating cultural, biological, evolutionary, linguistic and historical aspects of humankind.

Course Objective

This course is designed to provide the students with an introduction to the discipline of Anthropology, teach them with the course key concepts, institutions. at the major concepts, like culture, groups, socialization, deviance and social control. It also deals with social inequality in terms of social stratification, ethnic groups, Families, kinship and Descent, Human Diversity and Race, Criteria for Classification of races. Classification of races gender and of age, religion, education, economy and government and politics. Population, environment, urbanization and finally with collective behavior and social movements and social change. It also teaches definition & branches of Anthropology including Physical Anthropology, Social and Cultural Anthropology, Archaeology.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	develop understanding of the fundamentals of anthropological concepts and perspectives summarizing and evaluating complex arguments by key thinkers in the fields of anthropology
CLO2	describe how evolutionary and historical processes have shaped primates and human ancestors and lead to the biological, behavioral, and cultural diversity seen in the present
CLO3	describe how cultural systems construct reality differently for various human groups
CLO4	communicate anthropological knowledge effectively through written, oral and data presentation in varying formats for diverse audiences
CLO5	discuss human diversity and how knowledge about human diversity should lead to a better understanding of and therefore respect for people whose culture differs from ours

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	1	2	2	2	3
CLO2	1	2	2	2	2
CLO3	1	2	2	2	3
CLO4	1	2	2	3	3
CLO5	2	3	3	3	3
Average	1.2	2.2	2.2	2.4	2.8

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction Anthropology definition, Overview of cultural	4	Lecture & Class Participation	Quiz	1



anthropology: methods, goals, history, Ethnography & participant observation.				
2. Major Branches of Anthropology Biological Anthropology, Social Cultural Anthropology, Archaeological Anthropology, Linguistic Anthropology.	6	Lecture & Class Participation	Test & Quiz	1, 2
3. Human Origins Physical Anthropology, Human history or evolution, Homo sapiens, Old world culture, Race and human variation, Problem of race, Pattern of life, Cultural evolution, Multi-linear evolution, Universal and multi-linear evolution comparison.	5	Lecture with audio-visual aid	Test & Quiz	1, 2, 3
4. Culture, Language & Ethnography Definition and meaning of culture, Characteristics of culture, Existence and culture, Relationship between culture with society, Culture and the individual, Culture and change, Origins of language, Languages within the framework of life, Language and conceptualization of culture, Process of learning a language.	5	Lecture & Group Discussion	Test & Quiz	2, 3
5. Provisioning (Economics) Production mode of hunting and concocting, Development of energy, Rice-field agriculture, Production mode of slash and burn agriculture, Production mode of livestock farming.	5	Lecture & Class Participation	Test & Assignment	1, 2, 3, 5
6. Reproduction (Kinship) Concepts of Kinship, Exogamy and Endogamy, Principles of Descent, Types and Functions of Descent, Definitions, Types and Functions of Marriage Systems,	4	Lecture	Test & Assignment	1, 4

Alliance and Descent, Regulation of Marriage, Incest Prohibition, Preferential, Prescriptive, Proscriptive, Levirate, Sororate, Types and Forms of Marital transactions, Post-marital residence, Definition and Typology of Family, Domestic Groups, Basic structures and functions.				
7. Religion and Society Types of religion, Religions and social stability, Religion and family, Religion and social change, Formation of attitudes and mentality, Social sciences, Psychology, Types of religious organizations, Religion and magic, Religion and taboos, Culture and personality, Freud's influence, what is art, Art and culture, Art and politics, Art and its evolution.	5	Lecture with audio-visual aid	Test & Assignment	1, 4,5
8. City & Village Anthropology Concept of urbanization, Types and images of world's cities, Village conceptualization, Moral economy of farmers, Dilemma of the peasantry, Ideology of the peasant movement, Resistance of the peasantry.	6	Lecture	Test & Quiz	1, 2, 4, 5
9. Future of Anthropology Contemporary studies of anthropology, Modern ethnicity, Anthropology among other social sciences, Anthropology and globalization, Global trends, Influence of globalization.	5	Lecture & Class Participation	Test	1, 4

Textbook(s)

- William A. Haviland, Harald E.L. Prins, Dana Walrath. *An Introduction to Anthropology*. Cengage Learning.
- D. N. Majumdar & T. N. Madan. *An Introduction to Social Anthropology*. Mayur.



Reference(s)

3. Kottak, Conrad Phillip. *Anthropology: The Exploration of Human Diversity*.
4. Yuval Noah Harari. *Sapiens: A Brief History of Humankind*. Random House.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05	05	05	05	20
Apply	05	05		10	20
Analyze	05		05	05	15
Evaluate			05	10	15
Create	05			05	10
Total	20	20	20	40	100

Grading System: As per UGC recommendation

SOC-0111-301: SOCIAL SCIENCE RESEARCH METHODS

Credit Hours: 3

Rationale of the course:

This course will teach students a variety of research approaches, tools, and techniques, for collecting and analyzing qualitative or quantitative data.

Course Objective

This course is designed to provide the students the skills required to design and conduct social research.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Design social research
CLO2	Collect qualitative and quantitative data required for social research
CLO3	Analyze and interpret data to draw inferences

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	1	2	1	1	2
CLO2	2	2	2	3	3
CLO3	3	3	1	2	3
Average	2	2.33	1.33	2	2.67

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs



1. Introduction Definition of social sciences research; Introducing the concepts of research approaches, research designs, and research methods	3	Lecture	Test	1
2. Review of Literature: Importance of doing a literature review, Literature review techniques in qualitative study, quantitative study and mixed method study	3	Lecture & Class Participation	Assignment & Test	1
3. The Use of Theory: Quantitative theory use: types of variables, forms of theories, placement of theories; Qualitative theory use: variation in theory use, locating the theory; Mixed method theory use: types of theories, placement of theories	3	Lecture & Group Discussion	Assignment & Test	1
4. Qualitative Research Methods: Characteristics of qualitative research; Qualitative design; Data collection and recording procedure; Data analysis and interpretation	6	Lecture	Test & Quiz	2
5. Quantitative Research Methods: Defining surveys and experiments; Components of a survey method plan; Components of an experimental method plan	6	Lecture	Test and Quiz	2
6. Mixed Method Procedure: The nature of mixed methods research; Types of Mixed methods strategies; Data collection procedure; Data analysis procedure	6	Lecture	Assignment & Test	2
7. Sampling Technique: Various sampling techniques; Sample size; Appropriate way of deciding sample size	3	Lecture	Assignment & Test	2

8. Measures of Central Tendency: The mean, mode and the median; Limitations and strengths of the three; Comparing the mode, mean, median use depending on: Level of measurement; Shape and form of distribution	3	Lecture & Group Discussion	Assignment & Test	3
9. Inferential Statistics: From Description to Decision-Making: Steps in testing a hypothesis; t-test; using and interpreting the t-distribution; Testing about independence; Chi-square test; ANOVA & MANOVA.	6	Lecture & Group Discussion	Assignment & Test	3
10. Measures of Association: Correlation–weak and strong and curvilinear relationships; Correlation co-efficient; Linear and multiple regression.	6	Lecture & Group Discussion	Assignment & Test	3

Textbook(s)

Creswell, J. W.; Creswell, J. D. Research Design: Qualitative, Quantitative and Mixed Methods Approaches. London: Sage.

Saunders, M.; Lewis, P; Thornhill, A. Research Methods for Business Studies. London: Pitman publishers.

Reference(s)

1. Bryman, A. Social Research Methods. Oxford University Press.
2. Bhattacharjee, A. Social Science Research: Principles, Methods, and Practices. Independent Publishing.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05		05	10	20
Apply			05	15	20
Analyze			05	10	15
Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation



BUS -0114-201: INTRODUCTION TO BUSINESS

Credit Hours: 3

Rationale of the Course

This course allows the student to get a good understanding of the basics of the business world, how to conduct business profitably, how to create business opportunities, solve problems and apply leadership and management skills.

Course Objective

Introduction to Business is designed to expose the students to many functions of modern business. The course shows the student how these functions exist in a changing society and the type of decisions which must be made within that environment. The course is also designed to expose the student to the multitude of career fields in the areas of business.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Recognize and use business-relevant vocabulary
CLO2	Explain the different economic systems and the key economic indicators
CLO3	Describe how businesses operate in our modern political, social, and economic environment
CLO4	Present a general background in the elements and characteristics of business enterprise
CLO5	Discuss the many aspects of business functions such as management, organization, human relations, marketing, finance, and ethics
CLO6	Explain the role of profits in our economic system

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	1
CLO2	3	3	2	3	1
CLO3	3	3	3	3	3
CLO4	3	2	1	2	1
CLO5	3	3	2	3	1
CLO6	3	1	2	3	3
Average	3	2.5	2.17	2.67	1.67

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
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1. Meeting the Challenge of Today's Dynamic Business Environment Business and Entrepreneurship- Entrepreneurship Vs Working for others- The Business Environment - The Economic Environment - the Technological Environment - The Competitive Environment- The Social Environment- The Global Environment.	6	Lecture	Exam 1	1,3,6
2. How Economics Affects Business How Economic conditions affect Businesses- Understanding Free-Market Capitalism- Understanding Socialism- Understanding Communism- Understanding the Economic System of Bangladesh.	6	Lecture	Exam 1	2
3. Demonstrating Ethical Behavior and Social Responsibility Ethics is more than Legality- Managing Business Ethically and Responsibly, Setting Corporate Ethical Standards- Corporate Social Responsibility- International Ethics and Social Responsibility.	6	Lecture & Class Participation	Midterm and assignment	5
4. Forms of Business Ownership and Formation Procedures of Companies Sole Proprietorships, Partnerships- Corporations- Corporate Expansion- Special form of business ownership- Franchises- Cooperatives.	6	Lecture & Class participation	Midterm and assignment	4
5. Entrepreneurship and starting a Small Business The Age of Entrepreneur- Why take Entrepreneurial challenge- Getting started in Small	6	Lecture, Problem solving	Assignment and Mid term	4

Business- Managing a Small Business- Going International.				
6. Management, Leadership, and employee empowerment Managerial Challenges - Functions of Management- Planning, Organizing- Leading- Controlling.	9	Lecture, Problem solving	Final term	5
7. Marketing. Customer and Stakeholder Relationship Marketing Marketing- The Marketing Mix- Providing Marketers with Information, The Consumer Market- The Business-to-Business Market- Updating the Marketing Concept- Establishing Relationships with Stakeholder.	6	Lecture, Problem solving	Final term	5
8. Financial Management Role of Finance and Financial Managers- Financial Planning- Need for Operating Funds- Obtaining Short Term Financing and Long term financing- Importance of Money.		Lecture, Problem solving	Final term	5

Textbook(s)

Understanding Business, by Nickels, Mchugh & Mchugh. Publishes by McGraw-Hill Irwin.

Reference(s)

1. Business a changing world, Ferrell,O.C., Hirt, G., and Ferrell, L. Published by New York, NY: McGraw Hill.
2. Introduction to Business By Jeff Madura, Published by South-Western.

Assessment Procedure:

Bloom's Category	Assignments and Participation	Exam 1	Mid-term	Final term	Total
Remember	05			05	10
Understand	05	05	05	05	20
Apply	05	05	05	05	20
Analyze	05	05	05	05	20
Evaluate	05	05	05	05	20
Create	05			05	10
Total	30	20	20	30	100



Grading System: As per UGC recommendation

ETH-0223-201: ETHICS, RESPONSIBILITY, AND SUSTAINABILITY IN BUSINESS

Credit Hours: 3

Course Rationale:

This course aims at applying the moral principles to the evaluation and judgment of complex ethical and sustainability issues in contemporary business arena.

Course Objective:

This course discusses how to conduct business ethically. Students will learn how to develop and implement policies and procedures regarding topics such as fraud, bribery, discrimination, and corporate governance. They will understand how to link society, economy, and environment together. Social responsibility encourages the business to get involved in the community and other philanthropic initiatives. Sustainable management provides plans that can improve multiple parts of people's lives, environment, and future generations.

Course Learning Outcomes (CLO):

After completing the course, the student should be able to:

CLO1	explain the features of the global business environment based on business-society and business-environment relationships
CLO2	identify the interconnections between the economic, social, political and ecological spheres of human activity
CLO3	apply various ethical frameworks to certain situations, develop a vocabulary for discussing ethical issues, and apply ethical thinking to business situations

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	3	1	1
CLO2	3	2	3	1	2
CLO3	3	2	3	2	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs:

Topic	Hrs	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introducing Business Ethics: Definition and importance of business ethics, Business ethics in different organizational contexts, Globalization: A key context for business ethics, Sustainability: A key goal for business ethics	3	Lecture & Discussion	1 st Term and Midterm	1



2. Framing Business Ethics: Corporate Responsibility, Stakeholders and Citizenship: What is corporation, Corporate social responsibility, Stakeholder theory of the firm, Corporate citizenship-the firm as a political actor	4.5	Lecture & Discussion	1 st Term and Midterm	2
3. Evaluating Business Ethics: Normative Ethical Theories: The role of ethical theory, Normative ethical theories and religion, Western modernist ethical theories, Alternative perspectives on ethical theory	4.5	Lecture & scenario analysis	1 st Term and Midterm	1, 2
4. Managing Business Ethics: Tools and Techniques of Business Ethics Management: Business ethics management, Setting standards of ethical behavior, Managing stakeholder relations, Assessing ethical performance, Environmental management, Organizing for business ethics management	4.5	Lecture & scenario analysis	1 st Term and Midterm	3
5. Stakeholders and Business Ethics: Reassessing the importance of shareholders and stakeholders, Ethical issues in corporate governance, Shareholders and globalization, Shareholders as citizens of the corporation, Shareholding for sustainability	4.5	Lecture & in-class activity	Assignment and Midterm	1, 2
6. Employees and Business Ethics: Employees and other workers as stakeholders, Ethical issues in the employment relationship, Employing people worldwide: the ethical challenges of globalization, The corporate	4.5	Lecture & scenario analysis	Final	1, 2

citizen and employee relations, Towards sustainable employment				
7. Consumers and Business Ethics: Consumers as stakeholders, Ethical issues, marketing and the consumer, Globalization and consumers: the ethical challenges of the global marketplace, Consumers and corporate citizenship: consumer sovereignty and the politics of purchasing, Sustainable consumption	3	Lecture & scenario analysis	Final	1, 2
8. Suppliers, Competitors and Business Ethics: Suppliers and competitors as stakeholders, Ethical issues and suppliers, Ethical issues and competitors, Globalization, suppliers and competitors: the ethical challenges of global production networks, The corporate citizen in business-to-business relationships: ethical sourcing and fair trade, Sustainability and business relationships: towards industrial ecosystems	4.5	Lecture & discussion	Assignment and Final	1, 2
9. Civil Society and Business Ethics: Civil society organizations as stakeholders, Ethical issues and CSOs, Globalization and civil society organizations, Corporate citizenship and civil society: charity, collaboration, enterprise or regulation, Civil society, business and sustainability	4.5	Lecture and in-class activity	Final	1, 2
10. Government, Regulation and Business Ethics: Government as stakeholder, Ethical issues in the relationship between business and government, Globalization and business-government relations, Corporate citizenship	3	Lecture & scenario analysis	Final	1, 2

and regulation: business as key player in the regulatory game, Governance, business and sustainability				
11. Future perspectives: The nature and scope of business ethics, Globalization as a context for business ethics, Sustainability as a goal for business ethics, Corporate citizenship and business ethics, The contribution of normative ethical theories to business ethics, Influence on ethical decision making, The role of management tools in business ethics, The role of different stakeholder constituencies in business ethics, Trade-offs and conflicts between different stakeholder groups	4.5	Lecture & Presentation	Final	3

Textbook(s)

Crane, A. and Matten, D. (2019) Business ethics: managing corporate citizenship and sustainability in the age of globalization (5th ed.). Oxford: Oxford University Press

Reference(s)

1. Boatright, J. R. (2007). Ethics and conduct of business (5th ed.). Upper Saddle River, NJ: Prentice Hall.
2. Blowfield, M. (2013). Business and sustainability. Oxford: Oxford University Press

Assessment and Evaluation:

Bloom's Category	Class Performance	Assignment/ presentation	1 st Term	Mid-term	Final	Total
Remember			05	05	05	15
Understand	03		05	05	05	18
Apply	03	05	05	05	10	28
Analyze		05	05	05	05	20
Evaluate				05	05	10
Create	04				05	09
Total	10	10	20	25	35	100

Grading System: As per UGC recommendation

Humanities



BDS-0114-101: BANGLADESH STUDIES**Credit Hours: 3****Rationale of the Course**

This course aims at helping the undergrad students to learn the ancient, classical, late classical, medieval, and modern history of Bangladesh, to comprehend current Bangladesh in the light of history and to provide them with the basic knowledge of contemporary politics and economy of the country.

Course Objective

The course aims to prepare students with factual knowledge and analytical skills that will enable them to learn and critically appreciate history, politics, economy and society of Bangladesh. It will focus on the historical root of Bangladesh as an independent state focusing on the social, economic and political developments that have taken place since its independence. It will also identify the major socio-economic, political, environmental and developmental issues that have arisen during this period, before assessing the progress over time.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Categorize different stages of political history of Bangladesh
CLO2	Understand the reasons for liberation war and significance of constitution
CLO3	Have a comprehensive knowledge on social and environmental issues of Bangladesh
CLO4	Bangladesh Foreign Policy: Realities and Challenges

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	3
CLO2	3	2	3	2	2
CLO3	3	3	2	2	3
CLO4	3	2	3	2	1
Average	3	2.5	2.75	2	2.25

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Introduction: Bangladesh: History and Culture – An overview.	3	Classroom Lectures and Feedback	Class Test	1



2.Ancient, Classical, Late Classical and Medieval Bengal Etymology, Pre-historic Bengal, Bengal's early literature, Proto-History/Antiquity, Overseas colonization. Sasanka: the First independent king of Bengal, <i>Matsyanyayam</i> ; Pala dynasty; Dynasties of Southeastern Bengal; Sena rule, Bengal under the Sultanate period.	5	Classroom Lectures and Feedback	Class Test	1
3. Early Modern Bengal Bengal under the Mughals: Politics, Society and Culture.	4	Classroom Lectures and Feedback	Class Test	1
4. Modern Bengal/Bengal under British Colonial Rule Establishment of English Trade in Bengal, British East India Company, The British impact.	3	Classroom Lectures and Feedback	Class Test	1
5. Bengal Renaissance, Bengali Nationalism and Road to Autonomy Areas of social & religious reforms, Raja Rammohan Roy, Ishwar Chandra Vidyasagar, Titumeer; Partitions of Bengal (1905 & 1947). Lahore Resolution and the birth of Pakistan in 1947, Language Movement (1952); Bangabandhu Sheikh Mujibur Rahman and road to autonomy movement, 6-point and 11-point programs, Agartala Conspiracy Case, Mass Upsurge of 1969	6	Classroom Lectures and Feedback	Mid-Term	1
6. War of Independence The 1970 election, Military action, Genocide in the East Pakistan, The liberation war, Emergence of Bangladesh as an independent state in 1971	4	Classroom Lectures and Feedback	Mid-Term	2
7. Constitution of Bangladesh and its Amendments The Republic, Fundamental principles of state policy,	4	Classroom Lectures and Feedback	Mid-Term	2

Fundamental rights, The Executive, The Legislature, The Judiciary, Amendment of the Constitution				
8. Social Structure, Social Institutions and Culture of Bangladesh Social stratification, social classes, caste system, social mobility, Social Institutions: Family, marriage; Bengali culture; Urbanization process and its impact on Bangladesh society	5	Classroom Lectures and Feedback	Final Examination	3
9. Economy of Bangladesh Economic problems of Bangladesh and probable solutions, Contribution of garments industry in Bangladesh economy, the role of remittance in our economy	3	Classroom Lectures and Feedback	Final Examination	3
10. Environmental issues and Challenges of Bangladesh, Impacts of Climate Change in Bangladesh	4	Classroom Lectures and Feedback	Final Examination	3
11. Bangladesh Foreign Policy, Realities and Challenges	4	Classroom Lectures and Feedback	Final Examination	4

Textbook(s)

1. A. F. Salauddin Ahmed & Bazlul Mobin Chowdhury. Bangladesh: National Culture and Heritage. Independent University, Bangladesh, Dhaka.
2. Dr. Akbar Ali Khan, Discovery of Bangladesh: Explorations into Dynamics of a Hidden Nation. University Press Limited.
3. Muntasir Mamun and Mahbubur Rahman, *Swadhin Bangladesher Ovyudoyer Itihas*, Dhaka: University Grants Commission, 2017

Reference(s)

1. Haroun er Rashid. Economic Geography of Bangladesh. University Press Limited, Dhaka.
2. Muhammad Shamsul Huq. Bangladesh in International Politics. University Press Limited, Dhaka.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05		05	10	20
Apply			05	15	20
Analyze			05	10	15



Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation

BDS-0222-102: HISTORY OF THE EMERGENCE OF BANGLADESH

Credit Hours: 3

Rational of the Course

This course is designed to introduce the students with the political, cultural and historical background of Bangladesh.

Course Objective

This course offers an opportunity for students to explore a range of fascinating and multifaceted political and historical knowledge. It is designed to give a clear idea of the state, politics, history and culture. Especially, it is focused on how Bangladesh became an independent country. The aim of this course will acquaint the students with the rich history of emergence of Bangladesh.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand the ancient and medieval historical knowledge of the then country
CLO2	develop the basic knowledge about the country's history, politics, and culture
CLO3	gaining knowledge about the west Pakistan's deprivation, movement for self-determination and liberation war 1971
CLO4	understand the knowledge that supports to make decision and solve problem in future policy making process in a practice area

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	1
CLO2	3	2	3	3	2
CLO3	3	3	3	3	3
CLO4	2	3	3	2	1
Average	2.75	2.75	3	2.5	1.75

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to the Country and its People	6	Lecture and Class Participation	Test & Quiz	1
2. Communal Politics and Two-Nation Theory	3	Lecture	Test & Quiz	1



3. Structure and Discrimination of Pakistan State	3	Lecture	Presentation	2 & 3
4. Effort towards Democratic Politics and Language Movement	3	Lecture and Group Discussion	Viva-Voce	2 & 3
5. Attempt to Establish Democratic Government	3	Lecture	Test & Quiz	2 & 3
6. Attempt to Establish Democratic Government	3	Lecture	Test & Quiz	2 & 3
7. Tenure of Ayub Khan	3	Lecture and Feedback	Test & Quiz	3
8. Tenure of Ayub Khan	3	Lecture and Class Participation	Presentation	3
9. Development of Nationalism and Movement for Self-Determination	3	Lecture and Class Participation	Test & Quiz	3 & 4
10. Development of Nationalism and Movement for Self-Determination	3	Lecture and Class Participation	Test & Quiz	3 & 4
11. Mass Upsurge in 1969 and 11-Point Movement	3	Lecture	Test & Quiz	3
12. Elections in 1970 and Bangabandhu's Declaration of Independence	3	Lecture	Test & Quiz	3
13. Liberation War 1971.	3	Lecture and Video Presentation	Test & Quiz	3
14. Liberation War 1971.	3	Lecture and Video Presentation	Test & Quiz	3

Textbook(s)

The Unfinished Memoirs, Sheikh Mujibur Rahman

Reference(s)

1. *History of Bangladesh: A Sub continental Civilization*, Abul Maal A. Muhith
2. *Pakistan: Failure in National Integration*, Rounaq Jahan
3. *A History of Bangladesh*, Willem Van Schendel
4. *Bangladesh Politics: Problems and Issues*, Rounaq Jahan
5. *Thirty Years of Bangladesh Politics*, Mahfuzul Huque Chowdhury
6. *Bangladesh: A Political History since Independence*, Ali Riaz
7. *Bangladesher Abbhudoy*, Rehman Sobhan



8. *Swadhin Bangladesher Obbhudoyer Itihas. Suborno Prokashoni*, Muntasir Mamun and Md Mabubar Rahman.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Mid-term	Presentation	Final term	Total
Remember	05		05	10	10	30
Understand	05		05	05	10	25
Apply		05	05		05	15
Analyze		05		05	10	20
Evaluate		05			05	10
Create						
Total	10	20	20	10	40	100

Grading System: As per UGC recommendation

BLL-0232-101: BANGLA BHASHA & SHAHITTO (বাংলা ভাষা এবং সাহিত্য)

Credit Hours: 3

Rationale of the Course

যে কোন জনগোষ্ঠীকে সমৃদ্ধশালী করে তোলে- তার মাতৃভাষা, সাহিত্য-সংস্কৃতির অনুশীলন ও চর্চা। মনুষ্যত্ব বিকাশে এবং শিবা লাভের জন্য মাতৃভাষার চর্চা করা একান্ত অপরিহার্য। বাংলা আমারদের মাতৃভাষা। বাংলা আন্তর্জাতিক মাতৃভাষা রূপে স্বীকৃতি লাভ করলেও দেখা যাচ্ছে, আমাদের বর্তমান প্রজন্মের ছাত্র সামাজিক বাংলা ভাষা ও সাহিত্যের প্রতি আগ্রহ তেমন নেই। বাংলা বিষয়ে তাদের প্রবল অনীহা। এমতাবস্থায়, সকল শিার্থীদের মাতৃভাষা বাংলা ও বাংলা সাহিত্য পাঠের মাধ্যমে আত্মপরিচয়ের পথপ্রদর্শন করা হবে। পাশাপাশি ব্যবহারিক বেত্রে শুদ্ধরূপে বাংলা উচ্চারণ, বানান ও লিখন সম্পর্কে সম্যক ধারণা দেয়া হবে।

Course Objective

এই বিষয়টি অধ্যয়নের মাধ্যমে ছাত্র-ছাত্রী বৃন্দ বাংলাভাষা ও সাহিত্যের প্রতি আগ্রহী হয়ে উঠবে বলে আশা করা যায়।

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	বাংলা ভাষার বৈশিষ্ট্য, গুরুত্ব ও অন্তর্নিহিত শৃঙ্খলা সম্পর্কে ধারণা লাভ।
CLO2	প্রমিত বাংলা ভাষা ব্যবহারে নৈপুণ্য অর্জন।
CLO3	বিষয় বস্তুর যুক্তিপূর্ণ উপস্থাপনায় পারদর্শিতা অর্জন।
CLO4	পাঠের মর্মবস্তু অনুধাবন, সাহিত্য রসোপলব্ধি ও পাঠভ্যাসে আগ্রহী হওয়া।

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	3	3	3
CLO2	2	3	2	2	1
CLO3	3	1	3	2	2
CLO4	1	3	2	1	3
Average	2.25	2.25	2.5	2	2.25

(Level of integration: 3-High, 2-Medium, 1-Low)



Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
১) ভাষা, ভাষার ইতিহাস, বাংলা ভাষার বৈশিষ্ট্য, বাংলা সাহিত্য ও সাহিত্যের যুগ।	3	Classroom Lectures and Feedback	Test	CLO1
২) বাংলা ধ্বনি, বর্ণ, অবর্ণ, স্বরধ্বনি, ব্যঞ্জনধ্বনি।	3	Classroom Lectures and Feedback	Test	CLO2
৩) প্রমিত বাংলা বানানের নিয়ম।	3	Classroom Lectures and Feedback	Test	CLO2
৪) সাধু ও চলিত ভাষারীতি, বিরামচিহ্ন, বঙ্গানুবাদ।	3	Classroom Lectures and Feedback	Test & Quiz	CLO2
৫) সংবিষ্ট আলোচনা: বাংলাভাষা, বাংলা নববর্ষ, একুশে ফেব্রুয়ারী, মুক্তিযুদ্ধ।	3	Classroom Lectures and Feedback	Test & Quiz	CLO3
৬) বাংলার উৎসব, বিশায়ন, আধুনিক তথ্য প্রযুক্তি, মানবতা ও নৈতিকতা।	3	Classroom Lectures and Feedback	Test & Quiz	CLO3
৭) অভিজ্ঞতা বর্ণনা, ডায়েরি লিখন।	3	Classroom Lectures and Feedback	Test & Quiz	CLO3
৮) প্রবন্ধ : বর্তমান বিশ্বসাহিত্য, কবিতা: বঙ্গবাণী, বঙ্গভাষা	2	Classroom Lectures and Feedback	Assignment & Test	CLO3
৯) ছোটগল্প : পোস্টমাস্টার; কবিতা : আমার পরিচয়।	3	Classroom Lectures and Feedback	Assignment & Test	CLO4
১০) কবিতা: খাঁচার ভিতর অচিন পাখি, নির্বরের স্বপ্নভঙ্গ, বাংলার মুখ আমি।	3	Classroom Lectures and Feedback	Test & Quiz	CLO4
১১) কবিতা : তোমাকে পাওয়ার জন্যে হে স্বাধীনতা, স্মৃতিস্তম্ভ, অমর একুশে; প্রবন্ধ : তৈল।	2	Classroom Lectures and Feedback	Test & Quiz	CLO4
১২) ছোটগল্প : নয়নচারা, খাঁচা, মৌন নয়।	3	Classroom Lectures and Feedback	Test & Quiz	CLO4
১৩) ছোটগল্প: অপঘাত প্রবন্ধ : বাঙ্গালা ভাষা	3	Classroom Lectures and Feedback	Test & Quiz	CLO4
১৪) ছোটগল্প: পুঁইমাচা; প্রবন্ধ : সভ্যতার সংকট।	3	Classroom Lectures and Feedback	Test & Quiz	CLO4

১৫) ডায়রি : একাত্তরের দিনগুলি জাহানারা ইমাম; প্রবন্ধ : আমাদের বাংলা উচ্চারণ ।	2	Classroom Lectures and Feedback	Test & Quiz	CLO4
১৬) প্রবন্ধ : আমাদের আত্মপরিচয় নাটক: কবর ।	3	Classroom Lectures and Feedback	Test	CLO4

Textbook(s)

ইসলাম, রফিকুল সৌমিত্র শেখর । বাংলা ভাষা ও সাহিত্য ।

Reference(s)

মনির, ড. শাহজাহান । উচ্চতর বাংলা ব্যাকরণ ও নিমিত্তি ।

Medium of Instruction: Bengali

Assessment and Evaluation

Bloom's Category	Attendance	Assignment	Class Tests	Mid-Term Exam	Final Exam	Total
Remember			10			10
Understand	05	05	10	05	05	30
Apply				05	05	10
Analyze		05	10	05	05	25
Evaluate	05				05	10
Create		10			05	15
Total	10	20	30	15	25	100

Grading System: As per UGC recommendation

CORE COURSES

ACN-0411-201: PRINCIPLES OF ACCOUNTING

Credit Hours: 3

Rationale of the Course:

This course reviews the basic concepts, principles and techniques of financial accounting. It will help to prepare financial statements using the double entry system.

Course Objective

This course is an elementary accounting course. It introduces financial accounting theory, including the accounting cycle, analysis and recording of transactions, and reporting financial information in accordance with Generally Accepted Accounting Principles (GAAP).

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Realize the importance of using financial accounting in different types of organizations
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CLO2	Identify the basics of financial accounting through the accounting cycle for service and merchandise business.
CLO3	Apply the theoretical foundation of financial accounting (concepts, assumptions, and principles) and the financial statements of an enterprise
CLO4	Perform the different steps of the accounting cycle for service and merchandising businesses

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	3	3	1
CLO2	3	3	2	2	1
CLO3	3	3	3	2	2
CLO4	3	3	2	3	3
Average	3	2.75	2.5	2.5	1.75

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Accounting in Action Accounting Concept, Generally Accepted Accounting Principles, Ethics in Financial Reporting, The Basic Accounting Equation, Using the Basic Accounting Equation, Financial Statements, Practical Problems on Basic Accounting Equation.	8	Lecture, Presentation & Class Participation	Test & Viva	1
2. The Recording Process The Account, Steps in Recording Process, The Trial Balance, Practical Problems on Recording Process.	7	Lecture & Case	Test & Viva	2
3. Adjusting the Accounts Timing Issues, The Basics of Adjusting Entries, The Adjusted Trial Balance and Financial Statement, Practical Problems on Adjusting Entries.	7	Lecture & Case	Test	2
4. Completing the Accounting Cycle Using a Worksheet, Closing the Books, Summary of Accounting Cycle, The Classified Balance Sheet, Long-Term Investments, Preparation of Work sheet & Closing the Books.	9	Lecture & Case	Test & Assignment	2

5. Accounting for Merchandising Operations Merchandising Operation, Recording Purchase of Merchandise, Recording Sales of Merchandise, Completing the Accounting Cycle, Forms of Financial Statements, Practical problems on Merchandising Operations.	7	Lecture & Case	Test, Viva & Group Discussion	2
6. Plant Assets, Natural Resources and Intangible Assets Determining the Cost of Plant Assets, Depreciation, Expenditures During Useful Life, Plant Asset Disposals, Natural Resources, Intangible Assets, Research & Development Costs, Practical Problems on Different Methods of Depreciation	7	Lecture & Case	Test & Viva	3 & 4

Textbook

Jerry J. Weygandt, Donald E. Kieso, Paul D. Kimmel, *Accounting Principles*, John Willey & Sons, Inc. (12th Ed.)

References

1. Roger H. Hermanson, James Don Edwards, L. Gayle Rayburn *"Financial Accounting"*
2. Garrison, R. H., Noreen, E. W., Brewer, P. C., & McGowan, A. (2010). *Managerial accounting*. Issues in Accounting Education, 25(4), 792-793.
3. Smith, J. M., & Fred, S. K. *Intermediate Accounting*, South-Western Publishing company, Cincinnati, Ohio.

Assessment and Evaluation

Bloom's Category	Test	Assignment	Viva	Co-curricular Activities	Final Exam	Total
Remember	5	-	10	2	8	25
Understand	5	2	10	2	7	26
Apply	5	5		2	7	19
Analyze	3	3		2	4	12
Evaluate	2	-		2	4	8
Create	-	10		-	-	10
Total	20	20	20	10	30	100

Grading System: As per UGC recommendation

ACN-0411-204: COST AND MANAGEMENT ACCOUNTING

Credit Hours: 3

Rationale of the Course:



The course familiarizes students to contemporary management accounting concepts and techniques

Course Objective

This course aims to create value for the organization by managing resources, people, and other general activities and its importance for the management of a firm. It helps to improve the effectiveness of both the management planning and control functions.

Course Learning Outcomes (CLO):

At the end of the course, students will be able to:

CLO1	Know the role of management accounting in decision making process
CLO2	Develop in-depth knowledge on types and nature of costs
CLO3	Apply CVP analysis in business
CLO4	Prepare master budget
CLO5	Measure segment and company performance
CLO6	Know the role of costs in the decision making on the basis of relevance

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	1
CLO2	3	3	2	3	1
CLO3	3	3	3	3	3
CLO4	2	1	3	2	3
CLO5	3	3	3	2	1
CLO6	1	2	3	1	2
Average	2.5	2.5	2.83	2.17	1.83

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hou rs	Teaching-Learning Strategy	Assessment Strategy	Correspon ding CLOs
1. Managerial accounting and the Business Environment Definition, objectives, functions, Scope, Importance-Role, Techniques, Principles, Management Accounting Vs. Financial Accounting Managing Challenges, Code of Conducts, Ethics in Accounting, Conflict Resolution Process.	6	Lecture	Exam 1	1
2. Cost Behavior & Cost Classification	6	Lecture	Exam 1	1



Concepts, Cost & Expenses, Cost Unit, Elements, Classification, Analysis and Use, Various methods of separating mixed costs.				
3. Variable Costing: A Tool for Decision Making Definition, Distinctions, Product Cost vs. Periodic Cost, Uses & Limitations, Applications of Absorption and direct costing.	6	Lecture & Class Participation	Exam 1	2
4. Cost-Volume, Profit Relationship Decision Making Process, Assumptions, Break Even Analysis, Sales Mix-Income Tax & BEP Uncertainty & BEP, CVP analysis in a multi-product environment.	6	Lecture & Class participation	Mid term and assignment	3,6
5. Profit Planning Basic Framework of Budgetary control, Production Budget, Sales Budget, Cash Budget, Flexible Budget, Master Budget.	6	Lecture, Problem solving	Assignment and Mid term	4
6. Relevant costs and Decision Making Nature of Managerial Decision, Classification of Managerial Decision, Important Cost Concepts for Decision Making, Make or Buy Decisions, Scarce Resource Decisions, Sales mix Decisions, Special order Decisions, Product line Decisions, Further processing Decision.	6	Lecture, Problem solving	Final term	1, 6
7. Responsibility Accounting & Divisional Performance Measurement Cost Centre, Investment Centre, Profit Centre, Preconditions, Divisional Performance, Return on Investment, Residual Income, Responsible Reporting.	6	Lecture, Problem solving	Final term	5
8. Decentralization & Transfer Pricing Introduction, Advantage & Disadvantage of Decentralization:	3	Lecture, Problem solving	Final term	1

Transfer Pricing, Necessity, Objectives, Methods, Multinational Transfer Pricing.				
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Textbook(s)

Managerial Accounting by Ray H. Garrison, Eric W. Noreen and Peter C. Brewer, Published by McGraw-Hill/Irwin, 13th edition.

Reference(s)

1. Management and cost accounting by Horngren, C. T., Bhimani, A., Datar, S. M., Foster, G., & Horngren, C. T. (2002). Published by Harlow: Financial Times Press.
2. Managerial accounting: creating value in a dynamic business environment. Hilton, R. W., & Platt, D. E. (2013). Published by McGraw-Hill Education.

Assessment and Evaluation

Bloom's Category	Assignments and Participation	Exam 1	Mid-term	Final-term	Total
Remember	05		05	05	15
Understand	05	05	05	05	20
Apply	05	05	05	05	20
Analyze	05	05	05	05	20
Evaluate		05	05	05	15
Create			05	05	10
Total	20	20	30	30	100

Grading System: As per UGC recommendation

ACN-0411-304: AUDITING AND TAXATION

Credit Hours: 3

Rationale of the Course:

This course deals with the important elements of financial reporting, corporate governance and various aspects of taxation

Course Objective

Auditing and taxation are both vital components of accounting. The knowledge on two subjects is important not only for accountants but also for management. Auditing is a crucial element of financial reporting and corporate governance. Taxation implications must be considered during decision making processes.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand different types of audits, importance of audit for organization, government and other stakeholders, taxation system and authority in Bangladesh;
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CLO2	Apply to assess residential status and compute income from different sources of an individual;
CLO3	Analyze a company's audit report, VAT mechanism;
CLO4	Evaluate different types of audit reports;
CLO5	Be equipped to prepare income tax return of a salaried person;

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	3	2	1
CLO2	3	1	2	3	3
CLO3	3	3	2	3	1
CLO4	2	1	3	3	2
CLO5	3	3	2	2	1
Average	2.8	2	2.4	2.6	1.4

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hou rs	Teaching-Learning Strategy	Assessment Strategy	Correspon ding CLOs
1. Introduction on Audit Audit, Nature, Scope, Types, Attestation, Assurance	3	Lecture, Presentation & Class Participation	Test & Viva	1
2. Framework of Auditing Appointment, Engagement letter, Audit plan, Working papers, Quality control	6	Lecture & Presentation	Test & Viva	1
3. Internal audit Objectives, System, Components, The COSO Model, The COCO Control Model Procedure of Setting Internal Control System, Test of Control, Internal Check	9	Lecture & Presentation	Test & Viva	1 & 4
4. Audit Report Features of a good report, Report vs. Certificate, Judgment, Forming Opinion, Report Format, Types of Report, Real examples	3	Lecture, Presentation & Case	Test & Assignment	3, 4
5. Introduction to Taxation Purposes, Features, Types, Canons, Tax System in Bangladesh, Role of Income Tax in the Economic Development of Bangladesh. Test of Capital & Revenue, Features of	3	Lecture & Presentation	Test & Viva	1

Income, Classification of Income, Tax Holiday Scheme. Assesses: Residential Status, Physical Status, Income Year, Assessment Year, TIN and Tax Rate- Practical issues				
6. Tax Authorities in Bangladesh Income Tax Authorities, Administrative Authorities, Judicial Authorities, Higher Courts, Appeal & Revision	6	Lecture & Presentation	Test & Viva	1
7. Tax Assessment and Collection Procedures, Relevant Provisions, Types of assessment, Time limit for completing assessment, Re-assessment of Escaping Income, Tax Deducted at sources, Advance payment, Refund, Practical problems.	6	Lecture, Problem Solving & Presentation	Test & Viva	2, 3 & 5
8. Computation of Income Income from Salary, Interest on Securities, House Property, Agriculture, Business & Profession, Capital Gain and Other Sources, Practical Problems.	9	Lecture, Problem Solving & Presentation	Test, Assignment & Viva	2, 3 & 5

Textbook(s)

1. Contemporary Auditing & Assurance by Dr. Monjur Morshed Mahmud, Dr. Abdur Rahman & Dr. MD Salim Uddin, Padma Prakashani, Chittagong, First edition.
2. Bangladesh Income Tax-Theory & Practice by Nikhil Chandra Shil, Mohammad Zakaria Masud and Mohammad Faridul Alam, Shams Publications & AMS Publications (Latest edition)

Reference(s)

1. Income Tax Ordinance 1984,
2. Finance Act-Govt. of Bangladesh,
3. Circulars and orders issued by NBR.

Assessment and Evaluation

Bloom's Category	Test	Assignment	Viva	Co-curricular Activities	Final Exam	Total
Remember	5	-	10	2	8	25
Understand	5	2	10	2	7	26
Apply	5	5		2	7	19
Analyze	3	3		2	4	12
Evaluate	2	-		2	4	8
Create	-	10		-	-	10
Total	20	20	20	10	30	100



Grading System: As per UGC recommendation

BUS-0114-202: BUSINESS MATHEMATICS

Credit Hours: 3

Rationale of the Course

This course builds the basics of students for quantitative literacy. Through getting the foundations for diversified mathematical concepts, they remain open for further application of similar mathematical concepts.

Course Objective

This application driven course is designed to explain a number of mathematical concepts, techniques and models, which are fundamental to understanding of modern Business, Finance, Management and Economic theories and to enhance the skills and knowledge of mathematics required for solving real world problems.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Apply basic mathematical equations and graphs, differential calculus, and functions to solve business application problems
CLO2	Apply business statistics where applicable
CLO3	Accurately translate descriptive problems into mathematical formulas and solve them [Quantitative Literacy]

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	3	3	3
CLO2	3	2	3	2	3
CLO3	2	3	3	2	3
Average	2.67	2.33	3	2.33	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Linear Equation Definition, Solution set of an equation, Graphing two variable equation, Property of slope of straight line, equation of a straight line	4.5	Lecture & Problem solving	1 st Term and Midterm	1



2. Systems of Linear Equation Dimension, Solution set of system of equation, Graphical analysis, Elimination method, Gaussian elimination method	4.5	Lecture & Problem solving	1 st Term and Midterm	1
3. Matrix algebra Definition, Types of matrix, Matrix operations, Matrix multiplication, Determinant, Inverse matrix	4.5	Lecture & Problem solving	1 st Term and Midterm	1
4. Mathematical Functions Definition, Salary function, Domain and range, Types of function, Graphical representation	4.5	Lecture & Problem solving	1 st Term and Midterm	1
5. Linear functions, Applications Linear function in two independent variables, Linear cost, revenue and profit function, Linear demand and supply function, Break-even model, Market equilibrium	4.5	Lecture & Problem solving	Assignment and Final	2, 3
6. Differential calculus Test of existence, Limits and continuity, Limits and infinity, Different quotient, Derivative, Differentiation	13.5	Lecture & Problem solving	Assignment and Final	1
7. Optimization Interpretation of derivatives, Second derivative, Concavity, Inflection point, Minima, Maxima	9	Lecture & Problem solving	Assignment and Final	2

Textbook(s)

Frank S. Budnick, Applied Mathematics for Business, Economics and the Social Sciences, McGraw Hill, 4th edition

Reference(s)

1. Gordon D. Prichett, John C. Saber, Mathematics with applications in Management and Economics, Irwin, Latest available edition

Assessment and Evaluation

Bloom's Category	Class Performance	Assignment	1 st Term	Mid-term	Final	Total
Remember			05	05	05	15



Understand	03	05	05	05	05	23
Apply	03		05	05	10	23
Analyze			05		05	10
Evaluate				05	05	10
Create	04	05		05	05	19
Total	10	10	20	25	35	100

Grading System: As per UGC recommendation

BUS -0114-310: BUSINESS ANALYTICS

Credit Hours: 3

Course Rationale:

The course has been offered to make students familiar with the variety of quantitative and statistical techniques that can be applied to different business situations. Students will learn how to make effective and efficient decisions to address any business challenges towards creating value for a broad range of stakeholders.

Course Objective

Business analytics refers to the ways in which organizations of different kinds can use data to gain insights and make better managerial decisions. Business analytics is applied in human resources, operations, supply chain, marketing, finance, and strategic planning among other functions. The ability to use data effectively to drive rapid, precise and profitable decisions has been a critical strategic advantage for companies around the globe. With the increasing availability of broad and deep sources of information — so-called “Big Data” — business analytics are becoming an even more critical capability for organizations of all types and all sizes. In this course, students will learn to identify, evaluate, and capture business analytic opportunities that create value. Toward this end, they will also learn basic analytic methods and analyze case studies on organizations that successfully deployed these techniques.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Have a basic understanding of the value and use of quantitative methods in business and decision making
CLO2	Develop an understanding of a variety of quantitative and statistical techniques that can be applied to a wide range of business situations
CLO3	Learn to utilize the tools needed in business decision making
CLO4	Estimate the value created using business analytics to address an opportunity or a challenge

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	1	2	1
CLO2	3	3	1	2	1
CLO3	2	3	1	3	1
CLO4	1	3	1	3	1



Average	2.25	3	1	2.5	1
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(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. An Invitation to Business Analytics	6	Lecture	Assignment & Test	1
2. Descriptive statistics	3	Lecture Class Participation	Assignment & Test	1, 2
3. Data visualization	6	Lecture Group presentation Case Analysis	Assignment & Test	2, 3, 4
4. Linear regression	6	Lecture Group Discussion Case Analysis	Test & Quiz	2, 3, 4
5. Time series analysis and forecasting	6	Lecture Case analysis Class participation	Test & Quiz	2, 3, 4
6. Data mining, spreadsheet models	6	Lecture Case Analysis	Test & Quiz Project	2, 3, 4
7. Linear Optimization Models, Integer Linear Optimization, Nonlinear Optimization Models, Monte Carlo Simulation	6	Lecture Case Analysis Group presentation	Test and Quiz Assignment	1,2, 3, 4
8. Decision Analysis	6	Group presentation Case Analysis Assignment	Project report Test	1, 2, 3, 4

Textbook(s)

Camm, J. D. (2015). Essentials of Business Analytics (1st edition), Cengage Learning, India

Reference(s)

1. Albright, S. C., & Winston, W. L. (2016). Business Analytics: Data Analysis & Decision Making, Cengage learning, USA.

Assessment and Evaluation



Bloom's Category	Class attendance and participation	Assignments/ Case Analysis/ Presentation	Quizzes	Mid-Term	Final-Term	Total
Remember	05		05			10
Understand	05		05			10
Apply		05		05	05	15
Analyze	05	05	10	05	05	30
Evaluate	05	05		05	05	20
Create		05		05	05	15
Total	20	20	20	20	20	100

Grading System: As per UGC recommendation

BUS -0421-361: LEGAL ENVIRONMENT OF BUSINESS

Credit Hours: 3

Course Rationale:

The legal environment is constantly changing, and the business professionals must be aware of the legal factors affecting the day-to-day business activities. This course is intended to equip the students with necessary knowledge and critical thinking to anticipate, prevent, and resolve issues they might be facing as managers in the legal and regulatory context.

Course Objective

The objective of the course is to provide the students with an initial orientation with basic areas of Law which regulates the Business World. As Managers we must be familiar with certain legal matters like how to make a contract, how a partnership business is done, how the company should run, what are the legal requirements to establish and run a factory, how to deal with our workers, how they will be employed, how they will be paid, the basic rights of a worker etc. This course will help the students understand these basics of Business Law.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	To understand the Importance of Law in the Business World
CLO2	To understand the Formation of Contract & Partnership & other legal requirements
CLO3	To understand the Labor Law
CLO4	Regulatory compliances in different business sectors and status of the industry in Bangladesh

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	1	3	1	2
CLO2	3	1	3	2	3
CLO3	3	1	3	2	2
CLO4	2	3	2	3	3
Average	2.5	1.5	2.75	2	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)



Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
Introduction to Business Law Definition of Law; Society and Law; Rule of Law; Mercantile Law and sources of Law; Object and Scope, Essential elements of Contract	6	Lecture	Class Test	1
3. The Law of Contract Nature of Contracts, Offer & Acceptance; Consideration; Capacity of Parties; Free Consent; Legality of Consideration and object; Contingent Contracts and Wagering Agreement; Quasi Contract	9	Lecture & Case Analysis	Assignment & Presentation	2
5. The Law of Partnership Definition and Nature of Partnership; Formation of Partnership; Rights, Duties and Liabilities of Partners; Dissolution of Partnership Firm	3	Lecture & Case Analysis	Midterm	2
6. The Company Law Nature of Company; Kinds of Company; Formation of Company; Memorandum and Article of association, Prospectus, Membership in the Company, Shares Capital, Shares etc	3	Lecture	Midterm	2
7. Contract of Sale of Goods Contract of Sale of Goods; Condition and Warranties, Transfer of Property, Performance of Contract of Sale; Remedial Measures	9	Lecture & Presentation.	Class test	2
9. The Companies Act 1994	6	Lecture	Final	2
10. The Companies Act 1994	3	Lecture	Final	2
11. The Bangladesh Labour Act 2006 Meaning of Labor Law; Purpose of Labor Law in Bangladesh, Necessity of Labor Law; History of Labor Law; Labor Rights in the Constitution of Bangladesh,	3	Lecture	Final	3

Condition of Employment, Categories of Workers, Workers Safety, Workers Welfare Measures				
12. Regulatory Compliances in Different Business Sector	3	Lecture	Final	4

Textbook(s)

1. Commercial Law Including Company Law and Industrial Law - 22nd Edition or the latest-by Arun Kumar Sen and Jitendra Kumar Mitra
2. A Textbook of the Bangladesh Labour Act, 2014 - Dr. Zulfiquar Ahmed.

Assessment and Evaluation

Bloom's Category	Assignments & Case analysis	Quizzes	Mid-term	Final-term	Total
Remember	0	15	0	0	15
Understand	5	5	5	5	20
Apply	5	10	5	10	30
Analyze	10		5	5	20
Evaluate			5	5	10
Create				5	5
Total	20	30	20	30	100

Grading System: As per UGC recommendation

BUS-0111-485: BUSINESS RESEARCH METHODS

Credit Hours: 3

Rationale of the Course:

The rationale of this course is to introduce the student to the theory and practice of business research and to equip the students with the required skills in qualitative and quantitative research methods in business. Knowledge gathered from this course will be essential in preparing the thesis, internship report, and research articles in their academic and professional career.

Course Objective

The course is designed to give the students a clear idea of the diverse nature of corporate research.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand the importance of business research as a management decision making tool
CLO2	Understand the different stages of research
CLO3	Identify, analyze and interpret research problem

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
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CLO1	3	3	3	2	1
CLO2	3	3	2	3	1
CLO3	3	3	3	3	3
Average	3	3	2.67	2.67	1.33

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Introduction Meaning of Research-Objectives of Research-Business research defined- Scope of Business research-Importance of Business research.	6	Lecture	Test	1
2.The research Process Stages in the research process- Decision alternatives in the research process.	6	Lecture & Class Participation	Assignment & Test	2
3.Research Problem Definition-Selecting the problem- Techniques involved in defining problem.	6	Lecture & Group Discussion	Assignment & Test	3
4.Research Design Need for research Design- Features of good Design- Important concepts relevant to research design- different types of research design.	6	Lecture	Test & Quiz	3
5.Sampling Design Implications of sample Design- steps involved- Criteria for selecting a sampling procedure- random sampling—sample fundamentals.	3	Lecture	Test & Quiz	3
6.Data Collection Primary data and secondary- Selection of appropriate method.	3	Lecture	Test & Quiz	3
7.Processing and Analysis of Data Editing and coding data- Problem in processing- Elements and types of analysis- Statistical tools–Testing	12	Lecture, Problem solving	Test and Quiz	3



hypothesis-Analysis of Variance.				
8.Interpretation and Report writing Meaning and significance of report writing-deferent steps in report writing- Lay-out of the research report- Types of reports- Oral presentation-Techniques of report.	3	Lecture and Group Discussion	Test	3

Textbook(s)

Research Methodology: Methods and Techniques- C.R. Kothari

Reference(s)

1. Business Research Methods – William G. Zikmund. (6th Edition)

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final-term	Total
Remember		10	05	05	20
Understand	05		05	10	20
Apply			05	15	20
Analyze			05	10	15
Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation

ECN-0311-211: MICROECONOMICS

Credit Hours: 3

Rationale of the Course:

This course introduces students with basic concepts of economy like how individuals make decisions, how individual firms function, and how to calculate marginally. This knowledge will help the students to become better decision makers for establishing a successful career.

Course Objectives:

Economics is about how the society deals with the problem of scarcity. It is all around us and it affects almost everything we do. Starting with the basic tools of analysis this course will focus on the interaction of the forces of demand and supply to analyze consumer and firm behavior and understanding today's microeconomic environment by mastering the theories and practicing their applications.



Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand and relate the basic economic theory and principles to current microeconomic issues and evaluate policies
CLO2	Interpret charts, graphs, and tables and use the information to make informed judgments and communicate
CLO3	Develop critical thinking and analytical skills used by economists to understand the broader social consequences of economic decisions makings

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	2	2	1
CLO2	3	3	2	3	1
CLO3	2	3	3	2	1
Average	2.67	3	2.33	2.33	1

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Economics and the Economy Scarcity and Choice, Marginal analysis, Individual's Economizing problem, Society's Economizing problem, Production possibilities model, Unemployment, Growth and the future, Characteristics of the market system, Five fundamental questions, The 'Invisible Hand", The circular flow model	3	Lecture	Quiz	1
2. Price, Quantity, and Efficiency Demand, Supply, Determinants of demand and supply, Market Equilibrium, Rationing function of prices, efficient allocation, Changes in Supply, demand and Equilibrium, Price ceiling, Rent controls, Price floors	6	Lecture & Class Participation	Test	1&2

3. Consumer behavior Price Elasticity of demand, The total revenue test, Determinants of price elasticity of demand, Price elasticity of supply, Cross elasticity and income elasticity of demand, Law of diminishing marginal utility, theory of consumer behavior, Utility maximization, Income and substitution effects	6	Lecture & Group Discussion	Assignment & Test	1&2
4. Business and the Costs of Production Economic costs, Accounting profit and normal profit, Short run production relationships, Law of diminishing returns, Short run production costs, long run production costs, Economies and diseconomies of scale.	6	Lecture & discussion	Test & Quiz	1&2
5. Market structure Pure completion in the short and long run, Pure monopoly, Economic effects of monopoly, Price discrimination, Monopolistic competition, Ologopoly, Game theory and strategic behavior	9	Lecture	Test & Quiz	2&3
6. Resource market Significance of recourse pricing, Marginal productivity theory of resource demand, Determinants of resource demand, Elasticity of resource demand, Optimal combination of resources, Labor wages, and earnings, The minimum wage controversy, Wage differentials, Pay for performance	6	Lecture	Test & Quiz	1&2
7. Externalities and asymmetric information Efficiently functioning markets, positive and negative externalities,	6	Lecture, Problem solving	Test	2&3

Society's optimal amount of externality reduction, assymmetric information, Public goods, Public choice theory and voting paradoxes, government failure				
8. Income inequality, poverty and discrimination Causes of income inequality, Equality versus efficiency, The economics of poverty, Economic analysis of discrimination	3	Lecture and Group Discussion	Test	2&3

Textbook(s)

Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn, Bibek Ray Chaudhuri.
Microeconomics, McGraw Hill, 22nd edition.

Reference(s)

1. Karl E. Case, Ray C. Fair, *Principles of Economics*, Prentice Hall, Latest available edition.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final-term	Total
Remember		05	05	05	15
Understand		05	05	10	20
Apply	05	05	05	05	20
Analyze	05	05	05	10	25
Evaluate			05	05	10
Create			05	05	10
Total	10	20	30	40	100

Grading System: As per UGC recommendation

ECN-0311-212: MACROECONOMICS

Credit Hours: 3

Rationale of the Course:

This course introduces students with broad concepts of economy like GDP, unemployment and inflation and help them connect the day-to-day phenomenon with the knowledge of economics for a better understanding of the world around them.

Course Objective

This course is an introduction to the behavioral science of economics which focuses on the aggregate behavior of households, firms and the government. Topics covered include gross domestic product, national income, economic growth, unemployment, inflation, the business cycle, fiscal policy and monetary policy, and international trade.



Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Express economic growth and development concepts
CLO2	Analyze macroeconomic trends
CLO3	Apply macroeconomic trends to real life conditions

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	1	2	3	1	2
CLO2	3	2	3	2	1
CLO3	3	3	3	2	2
Average	2.33	2.33	3	1.67	1.67

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Measuring a Nation's Income GDP, Nation's Income and Expenditure, Components of GDP, Inflation, Measuring society's well-being	4.5	Lecture & Problem solving	1 st Term and Midterm	3
2.Measuring the Cost-of-Living CPI, Inflation, Conversion to today's rate, Problems of CPI	4.5	Lecture & Problem solving	1 st Term and Midterm	3
3.Saving, Investment and the Financial System Financial system, Financial market, Savings and investment in national income accounts, Market for loanable funds	6	Lecture & Problem solving	1 st Term and Midterm	2
4.Unemployment Employed, Unemployed, Frictional unemployment, Structural unemployment, Rise and fall of unemployment	6	Lecture & Problem solving	1 st Term and Midterm	2
5.The Monetary System What is money, Federal reserve, Banks role in monetary system, Tools to control money supply	12	Lecture & in-class activity	Presentation	2
6.Money, Growth and Inflation Quantity theory of money, Monetary equilibrium, Classical theory of inflation, Velocity and	6	Lecture & Problem solving	Final	1,2

quantity equation, Fisher effect, Costs of inflation				
7.Aggregate Demand and Aggregate Supply Economic fluctuations, Aggregate demand and Aggregate supply, Causes of economic fluctuations	6	Lecture & Problem solving	Final	1,2

Textbook(s)

Mankiw, N. Gregory. *Principles of Macroeconomics*. Delhi: Cenage Learning. 6th edition.

Reference(s)

1. Karl E. Case, Ray C. Fair and Sharon M. Oster, *Principles of Macroeconomics*, Prentice Hall, 10th edition

Assessment and Evaluation

Bloom's Category	Class Performance	Assignment/ Presentation	1 st Term	Mid-term	Final	Total
Remember			05	05	05	15
Understand	03		05	05	05	18
Apply	03	05	05	05	10	28
Analyze			05		05	10
Evaluate				05	05	10
Create	04	05		05	05	19
Total	10	10	20	25	35	100

Grading System: As per UGC recommendation

FIN-0412-211: PRINCIPLES OF FINANCE

Credit Hours: 3

Rationale of the Course:

The Principles of Finance course is intended to introduce students to key financial concepts as well as how businesses use financial analysis to make sound business decisions.

Course Objective

Finance is an exciting, challenging, and ever-changing discipline. Changing technology and increased globalization are dramatically transforming financial practices and markets. These render a radical change in policies and strategies of finance professional working in the changing financial environment. A business student has to be associated with this changing environment. Therefore, the present course titled "Principles of Finance" has been strived to communicate the excitement and to demonstrate how these changes are affecting finance and other aspects of business.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Know about the nature and scope of finance
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CLO2	Capture the understanding of the structure of financial markets
CLO3	Recognize important concepts of time value of money and risk-return relationship
CLO4	Acquire required knowledge about the processes of short-term and long-term financing and their consequences
CLO5	Know about the insights and techniques of making decisions and judgment regarding current assets like cash, accounts receivable, and inventory
CLO6	Know about the tools for quantitative analysis of past financial performance

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	1	3	3
CLO2	3	3	1	3	3
CLO3	3	3	3	3	2
CLO4	3	3	2	3	2
CLO5	3	3	2	3	3
CLO6	3	2	2	3	2
Average	3	2.83	1.83	3	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1.Overview of Finance Finance and Financial Management, Functions of Financial Manager, Fundamentals Financial Decisions, Objectives of Financial Management, Relationship between Finance and Accounting, and Agency Problem.	6	Lecture	Quiz	1
2.The Financial Market Environment Financial Asset and Financial Market, Financial Transactions, and Financial Institutions & Financial Intermediaries.	6	Lecture & Class Participation	Assignment & Test	1, 2
3.Time Value of Money Concept of Time Value of Money, Simple and Compound Interest, Discounting and Compounding, and Annuity.	6	Lecture & Group Discussion	Test	3
4.Risk and Return Concept of Risk and Return, Components of Return, Relationship between Risk and Return, Various Types	6	Lecture	Test	3



of Risk, and Measurement of Risk.				
5.Sources of Financing Short-term versus Long-term Sources, Various Sources of Financing, and Measurement of Cost of Financing.	6	Lecture	Test & Quiz	4
6.Management of Current Assets Management of Cash, Accounts Receivable, and Inventory.	6	Lecture	Test	1 & 5
7.Financial Statement Analysis Concept of Financial Statement and Financial Statement Analysis, Need for Financial Statement Analysis, Various Methods for Financial Statement Analysis.	9	Lecture & Group Discussion	Assignment & Test	6

Textbook(s)

Principles of Managerial Finance - Lawrence J. Gitman and Chad J. Zutter

Reference(s)

1. Fundamentals of Financial Management - Eugene F. Brigham and Joel E. Houston
2. Introduction to Financial Management - Charles P. Jones

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05		05	05	15
Apply			05	05	10
Analyze			05	10	15
Evaluate			05	15	20
Create	05		05	10	20
Total	10	10	30	50	100

Grading System: As per UGC recommendation

FIN-0412-311: BANK MANAGEMENT

Credit Hours: 3

Rationale of the Course:

The course aims to assess their comparative international importance, significance in the economy, legislative and regulatory landscape and the financial services they initiate and consume.

Course Objective



Financial services are the mechanisms by which the financial surpluses of some groups in society are channeled into investment. This course aims to instruct in two ways: Firstly, it explores institutional financial services. Banks, pension schemes, insurance companies, mutual funds, corporations, charities and trusts are examined. The course aims to assess their comparative international importance, significance in the economy, legislative and regulatory landscape and the financial services they initiate and consume. Secondly, the module explores business of banking. It also includes numerical analysis of asset liability management, profitability analysis as well as export import financing.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Develop and test models that explain asset liability management
CLO2	Understand bank and non-bank financial services and discriminate between them
CLO3	Critically appraise the conceptual and empirical banking and financial services literature
CLO4	Understand financial services legislation and regulation and its importance within the industry and the economy

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	1	1	3
CLO2	3	3	3	2	2
CLO3	3	3	1	3	3
CLO4	3	3	2	2	2
Average	3	3	1.75	2	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction An Overview of Banks and Their Services: What Is a Bank, The Services Banks Offer the Public & Trends Affecting All Banks.	3	Lecture	Test	2
2.Impact of Government Policy and Regulation on Banking Banking Regulation & Central Banking System: It's Impact on the Decisions and Policies of Individual Banks.	6	Lecture & Class Participation	Assignment & Test	2,3,4

3. Financial Statements of a Bank An Overview of Bank Balance Sheets and Income Statements, The Bank's Balance Sheet.	6	Lecture & Group Discussion	Assignment & Test	1,3
4. Components of the Income Statement (Report of Income)	3	Lecture	Test & Quiz	1, 3
5. Measuring and Evaluating Bank Performance Evaluating a Bank's Performance , Profitability Ratios: A Surrogate for Stock Values	3	Lecture	Test & Quiz	1, 3
6.Measuring Risk in Banking Basel Norms ,The Impact of Bank Size on Performance	6	Lecture	Test & Quiz	1, 3
7. Asset-Liability Management Determining and Measuring Interest Rates and Controlling a Bank's Interest-Sensitive Gap	3	Lecture, Problem Solving	Test and Quiz	3,4
8. The Concept of Duration and Managing a Bank's Duration Gap The Concept of Duration	3	Lecture and Group Discussion	Test	1, 3
9. The Investment Function in Banking Investment Instruments Available to Banks	3	Lecture and Group Discussion	Test	1,2
10. Bank Marketing Pricing Consumer and Real Estate loans	3	Lecture and Group Discussion	Test	1,2
11.Bank Marketing Pricing Deposit-Related Services & and Management Decision Objectives	3	Lecture and Group Discussion	Test	1,2
12.Credit Management Policy Development and Regulation	3	Lecture	Assignment.	4

Textbook(s)

1. Financial Institutions and Markets, Meir Kohn, Oxford University, (Latest Edition)
2. Commercial Bank Management by Peter S. Rose. (Latest Edition).

Reference(s)

1. Howells, P., and Bain, K. 2008, the Economics of Money, Banking and Finance Fourth Edition. Financial Times Prentice Hall.



2. Mishkin, F. S., and Eakins, S. G., Financial Markets and Institutions. 8th Edition, Addison Wesley Longman.
3. Stephen Valdez. An Introduction to Global Financial Markets. 7th Edition 2013. Palgrave Macmillan.
4. Davis, P. E., and Steil, B., Institutional Investors. MIT Press.
5. Dr. Kabir Hassan, Banking and Finance in Bangladesh. .
6. Hennie Van Greuning. & Sonja Brajovic Bratanovic. (Latest edition), Analyzing and Managing banking risk.
7. Donald H. Chew, Jr., The New Corporate Finance. (Latest Edition).

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final term	Total
Remember		10		05	15
Understand	05	10	05	05	25
Apply			05	10	15
Analyze	05	05	05	10	25
Evaluate			05	05	10
Create	05			05	10
Total	15	25	20	40	100

Grading System: As per UGC recommendation

HRM-0413-301: HUMAN RESOURCE MANAGEMENT

Credit Hours: 3

Course Rationale:

A comprehensive analysis of key HRM concepts, techniques and relevant cotemporary issue discussion is dominantly covered in this course. The vital role of HRM in performance management and the crucial skills of HR professionals to successfully align business strategy with HRM is discussed in this course in a global prospect so that students can prepare themselves accordingly.

Course Objective

Human Resource Management links people-related activities to business strategy. The course develops a critical understanding of the role and functions of the various human resource activities in an organization, providing students with a comprehensive review of key HRM concepts, techniques, and issues. This course is designed around the terms and concepts and modern theories and HR practices that are well in practice today and are playing a major role in organizations. Major topics in this course include an understanding of HRM, external and internal factors affecting the HRM, HR planning, job analysis, job design, recruitment and selection, HR training and development, performance appraisal and compensation, labor relation, and labor disputes, and finally collective bargaining issues. This course will offer a firm understanding of employer, employees, organization, our society, business practices, ethics, and discrimination in the job from different angles. Ample examples will be provided, and a number of case incidents will be discussed for better understanding of the subject



Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	have firm understanding of the HRM terms and concepts and practices
CLO2	apply the knowledge gained from this course in real world in helping organizations to gain competitive advantage
CLO3	think critically and dissect a controversial topic pertaining HRM and debate their points of views
CLO4	Demonstrate effective written and oral communication, research skills and learn how to dissect a complicated case and prepare a report professionally
CLO5	Recognize and discuss the critical role that effective people management plays in building and maintaining competitive advantage in contemporary organizations

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	2
CLO2	3	3	3	3	2
CLO3	3	2	3	3	2
CLO4	3	3	3	3	3
CLO5	3	3	3	3	3
Average	3	2.8	3	2.8	2.4

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Human Resource Management (What human resource management is and how it relates to the management process, human resources responsibilities of line and staff (HR) managers, important trends influencing human resource management, Line and Staff Aspects of Human Resource Management, List and briefly describe important traits of today's human resource managers, Define, and give an example of	3	Lecture	Quiz and open discussion	1

evidence-based human resource management)				
2. The Strategic Role of Human Resource Management (e seven steps in the strategic management process, strategic human resource management, and give an example of strategic human resource management in practice, examples of HR metrics, what employers can do to have high-performance systems, explain how you would design a program to improve employee engagement)	3	Lecture	Case solving & Exam	1, 2
3. Job Analysis (Importance of human resource planning, steps involved in the human resource planning process, nature and process of job analysis, methods of collecting job analysis information, job descriptions, including summaries and job functions, using the Internet and traditional methods, write a job specification, explain competency-based job analysis, including what it means and how it is done in practice)	6	Lecture & open discussion (brainstorming)	Assignment & Quiz	1, 2, 4
4. Personnel Planning and Recruiting (Workforce planning, and explain how to develop a workforce plan, the need for effective recruiting and how to make recruiting more	6	Lecture	Exam & Quiz	1, 2, 5,

effective, the main internal sources of candidates, how to use recruiting to improve employee engagement, the main outside sources of candidates, and create an employment ad, how to recruit a more diverse workforce, practical guidelines for obtaining application information)				
5. Employee Testing and Selection (Why is it important to test and select employees, what is meant by reliability and validity, e the basic categories of selection tests, with examples, how to use two work simulations for selection, ways to improve an employer's background checking process)	3	Lecture and small case discussion (brainstorming)	Exam & Quiz	1,2,4,5
6. Interviewing Candidates (Main types of selection interviews, e main errors that can undermine an interview's usefulness, define a structured situational interview and explain how to conduct effective selection interviews, examples of how to use employee selection to improve employee engagement, the main points in developing and extending the actual job offer)	3	Lecture	Role playing activity	1,2,4
7. Training and Developing Employees (Purpose and process of employee orientation, how to design on boarding to	6	Lecture	Role playing activity & case solving	1, 2,3,5

improve employee engagement, steps in the training process, n how to use five training techniques, four management development methods, importance of the steps in leading organizational change, why a controlled study may be superior for evaluating the training program's effects)				
8. Performance Management and Appraisal (Describe the performance appraisal process, Discuss the pros and cons of at least eight traditional performance appraisal methods, give examples of how to deal with potential appraisal error problems, List steps to take in the appraisal interview, key points in how to use the appraisal interview to boost employee engagement, explain how you would take a performance management approach to appraisal)	3	Lecture	Exam & Quiz	1, 2,5
9. Benefits and Services (Name and define each of the main pay for time not worked benefits, describe each of the main insurance benefits, Discuss the main retirement benefits, explain main employees' services benefits, Explain the main flexible benefit programs)	6	Lecture	Quiz	1,2,4
10. Rewards & Pay Plans (Explain the various classifications of rewards, discuss why we call some		Lecture, interactive session, video	Exam & Quiz	1,2,4

rewards membership based, Define the goal of compensation administration, discuss job evaluation and its three basic approaches, Explain the evolution of the final wage structure, describe competency-based compensation programs, discuss why executives' salaries are significantly higher than those of other employees, Describe the balance-sheet approach to international compensation)		tutorial, puzzle interviews		
11. Managing Global Human Resource (List the HR challenges of international business, illustrate with examples how inter-country differences affect HRM, List and briefly describe the main methods for staffing global organizations, discuss some important issues to keep in mind in training, appraising, and compensating international employees, explain with examples how to implement a global human resource management program)	3	Lecture & open discussion (brainstorming)	Case solving	1.4.5
12. Managing HR in small and Entrepreneurial Firms (Explain why HRM is important to small businesses, how small business HRM is different from that in large businesses, how entrepreneurs can use	3	Lecture & open discussion (brainstorming)	Case solving	1.4.5

Internet and government tools to support the HR effort, Ways entrepreneurs can use in their small firms to improve their HR processes, discuss how you would choose and deal with a professional employer organization, Describe how you would create a startup human, Resource system for a new small business.)				
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Textbook(s)

Garry Dessler, Human Resource Management, Prentice Hall.

Reference(s)

1. Human Resource Management, Lloyd L. Byars and Leslie Rue.
2. Journals and Online Magazines: Journal of Human Resource Management, Journal of Asian Business studies.

Assessment and Evaluation

Bloom's Category	Assignments and Case solving	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05	05	05	05	20
Apply	05	05		05	20
Analyze	05		05	10	15
Evaluate			05	05	10
Create	05			10	15
Total	20	20	20	40	100

Grading System: As per UGC recommendation

HRM-0413-381: EMPLOYMENT LAW

Credit Hours: 3

Course Rationale:

This course purposes to explore the common employment related issues within the organizations in Bangladesh and creating an awareness of the current laws and regulations relevant to those issues.

Course Objective

This course is designed to provide students a basic understanding and application of labor/employment laws of Bangladesh with necessary interpretations. It is inevitable for the present & future managers to be conversant with the laws of the country that regulate



the workers-unions-employers-government relationships in the workplaces. The course will explore the realities and myths of what constitute the workers' and employers' rights and responsibilities in the workplace.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand of the roles, rights and responsibilities of all parties to the employment relationship
CLO2	apply their knowledge of employment law to a range of hypothetical problems
CLO3	communicate employment law, using appropriate methods, to wide range of audiences with different levels of knowledge and expertise
CLO4	analyse the existing legal regulations, recent developments as well as proposals for change businesses

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	3
CLO2	3	3	3	2	2
CLO3	2	2	1	3	1
CLO4	2	3	3	3	2
Average	2.5	2.75	2.5	2.5	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. A Review of Human Resource Management (HRM) Nature of HRM, Functions of HRM, Structure of an HR Department, functions of an industrial/employee relations manager.	4.5	Lecture & Class Participation	Test & Quiz	1, 3
2. Overview of Bangladesh Labor Act 2006 Historical Background of BLA 2006, Definitions of key terms of BLA 2006, Amendments of BLA 2006, Non-Applicability of BLA 2006; Key provisions of Section 2 of BLA 2006.	4.5	Lecture	Test & Quiz	1, 2, 4
3. Appointment and Conditions of Employment lay off, lock-out, discharge, dismissal, retrenchment,	7.5	Lecture	Test & Case Analysis	1, 2, 4

misconduct and its punishment, grievance procedure.				
4. Employment of Young Persons and Maternity Benefits Defining child, adolescent, and adult. Provisions for employment of child, adolescent, and adult. Right to and liability for the payment of maternity benefits, amount of maternity benefits, calculation of maternity benefits.	6	Lecture & Class Participation	Test & Case Analysis	1, 2, 3, 4
5. Safety, Health, and Welfare of Employees Important provisions related to safety, health, and welfare of workers such as neatness and cleanliness, ventilations and temperature, drinking water, safety of building and machinery, obligation of using personal protective apparatus, dangerous operations, first-aid appliances, canteen, day care center, compulsory group insurance.	7.5	Lecture & Class Participation	Test & Case Analysis	1, 2, 4
6. Working Hours and Leave Weekly holiday, annual leave, sick leave, casual leave, festival holidays.	4.5	Lecture	Test	1, 2, 4
7. Wages, Wage Board, and Compensation for Injury caused by Accident Laws related to payment of wages, establishment of minimum wage board and its functions, employers' responsibility for payment of compensation.	4.5	Lecture	Test	1, 2, 3
8. Trade Unions and Industrial Relations Trade unions, collective bargaining process, formation	6	Lecture & Group Discussion	Test	1, 2, 3, 4

and functions of participation committee, unfair labor practices, industrial disputes and their settlement.				
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Textbook(s)

1. Md. Abdul Halim & Masum Saifur Rahman, *The Bangladesh Labour Code, 2006*. CCB Foundation, Dhaka.
2. Nirmal Chandra Paul, *The Bangladesh Labor Code, 2006 & Other Related Laws*. Shams Publications, Dhaka.

Reference(s)

1. S A Huq, *Bangladesh Labor Code*. Dhaka.
2. Mohammad Ataul Karim, *Labour Laws of Bangladesh*. Sufi Prokashoni, Dhaka.
3. Prof. M Faruk Khan & Prof. A.K.M. Moniruzzaman, *Bangladesh Labour Law*. Dynamic Publications, Dhaka.
4. Iqbal Ahmed, *Industrial Relations and Labor Movement in Bangladesh*. IBA, Dhaka.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Mid-term	Final-term	Total
Remember		05		05	10
Understand		05	05	05	15
Apply	05		10	10	25
Analyze	05		10	10	25
Evaluate	05		05	05	15
Create	05			05	10
Total	20	10	30	40	100

Grading System: As per UGC recommendation

MGT-0413-201: PRINCIPLES OF MANAGEMENT

Credit Hours: 3

Course Rationale:

This course is offered to make the students aware of the various management principles, and to develop an understanding of issues involved in both managing and being managed. Students will learn about the major challenges faced by modern organizations and the ways to overcome them using management tactics.

Course Objective

This course is designed to provide a basic framework for understanding the roles and functions of a manager and to explain the principles, concepts, and techniques that can be used in carrying out these functions.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:



CLO1	Understand the concept of management from various perspectives as well as the management functions, levels, skills and managerial roles.
CLO2	Identify and describe the levels and the types of culture that exists within an organization
CLO3	Conduct business environment analysis and explain how a specific business strategy can help an organization gain a competitive advantage
CLO4	Describe the types of organizational structures managers can design, and explain why they choose one structure over another
CLO5	Understand and apply leadership and motivation theories
CLO6	Explain how planning and controlling adds to an organization's goals

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	2	1	1
CLO2	2	1	3	3	3
CLO3	3	3	2	3	2
CLO4	3	3	3	2	2
CLO5	2	2	1	2	3
CLO6	3	2	2	3	1
Average	2.67	2.33	1.67	2.33	1.67

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Overview of Management Management, Management Functions, Mintzberg's Managerial Roles, Management Skills, Management Levels, Evolution of Management Thought, Organization and the Environmental Factors, Trends and Challenges of Management in Global Scenario.	7.5	Lecture & Class Participation	Test & Quiz	1, 2, 3
2. Planning Nature and Purpose of Planning, Planning process, Types of plans, Goals and Plans, Objectives, Types of Strategies, Policies, Decision Making, Types of Decision, Decision Making Process, Rational Decision Making Process, Decision	10.5	Lecture	Test & Quiz	3, 6

Making Under Different Conditions, The Strategic Management Process, Corporate Strategies, Competitive Strategies, Techniques for Assessing the Environment, Techniques for Allocating Resources, Contemporary Planning Techniques.				
3. Organizing Nature and Purpose of Organizing, Organization Structure, Work Specialization, Departmentalization, Chain of Command, Span of control, Centralization and Decentralization, Delegation of authority, Staffing, Selection and Recruitment, Career Development, Career stages, Training, Performance Appraisal, Managing Teams.	10.5	Lecture & Group Discussion	Test & Assignment	4
4. Leading Creativity and Innovation, Motivation and Satisfaction, Motivation Theories, Current Issues in Motivation, Leadership Styles, Leadership Theories, Leadership Issues in The Twenty-First Century, Communication, Barriers to Effective Communication, Organization Culture, Elements and Types of Culture, Managing Cultural Diversity.	9	Lecture & Group Discussion	Test & Presentation	5
5. Controlling Process of Controlling, Types of Control, Budgetary and Non-budgetary Control Techniques, Managing Productivity, Cost Control, Purchase Control, Maintenance Control, Quality	7.5	Lecture	Test	6

Control, Managing Operations, Value Chain Management.				
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Textbook(s)

Stephen P. Robbins and Mary Coulter, *Management*, Prentice Hall of India.

Reference(s)

1. Ricky W. Griffin, *Management*, Cengage Learning.
2. Thomas S. Bateman and Scott A. Snell, *Management*, McGraw-Hill Education.
3. Charles W. L. Hill and Steven L. McShane; *Principles of Management*, Tata McGraw Hill.
4. Heinz Weihrich and Harold Koontz, *Management: A Global and Entrepreneurial Perspective*, Tata McGraw Hill.
5. Samuel C. Certo and Tervis Certo, *Modern management: concepts and skills*. Pearson Education Limited.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Mid-term	Presentation	Final-term	Total
Remember	05		05		10	20
Understand	05		05	05	10	25
Apply		05	05		05	15
Analyze		05		05	10	20
Evaluate		05			05	10
Create		05	05			10
Total	10	20	20	10	40	100

Grading System: As per UGC recommendation

MGT-0413-301: ORGANIZATIONAL BEHAVIOR

Credit Hours: 3

Course Rationale:

Human resources are crucial in each functional aspects of management and equally so for the effective utilization of all other resources. This course uses a behavioral science perspective towards the understanding of human behavior at individual, group and organizational levels. With exposure to different views, concepts and experiences, it is expected that the students will be able to examine, comprehend and effectively manage the behavior of people within the organization.

Course Objective

The aim of this course is to familiarize students with the various concepts related to how employees tend to behave in an organization and gain insights into the concepts that go into the making of a successful organization.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:



CLO1	understand and explain organizational theory as it relates to management practices, employee relations, and structure of the organization to fit its environment and operation
CLO2	describe the impact of corporate culture on employee behaviour
CLO3	recognize how different personalities with different experiences may perceive and react to situations in very different ways and adapt your approach to the situation accordingly
CLO4	apply related theories as tools for analyzing and solving personnel problems

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	3	3	1
CLO-2	3	2	2	2	2
CLO-3	3	3	3	2	3
CLO-4	3	3	3	2	2
Average	3	2.75	2.75	2.25	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction Meaning of Organizational Behaviour, Nature of Organizational Behaviour, Contributing Disciplines, Organizational Models, Challenges & Opportunities of Organizational Behaviour.	6	Lecture & Class Participation	Test & Quiz	1, 2, 3
2. Personality & Perception Meaning of Personality, Importance of Personality, Determinants of Personality. Meaning of Perception, Perceptual Process, Factors influencing Perception, Perceptual Distortion.	6	Lecture & Group Discussion	Test & Quiz	1, 2, 3
3. Attitude & Learning Meaning of Attitude, Components of Attitude, Factors in Attitude Formation. Meaning of Learning, Factors affecting Learning, Theories of Learning.	6	Lecture & Group Discussion	Test & Assignment	1, 2, 3

4. Motivation Meaning of Motivation, Concepts of Motivation, Theories of Motivation, Concept of Morale.	6	Lecture & Group Discussion	Test & Presentation	2, 3
5. Group Dynamics Formal & Informal Groups, Stages of Group Development, Group vs Team, Types of Team, Group Decision, Making Techniques, Interpersonal Communication, Transactional, Analysis and its applications.	6	Lecture	Test	2, 3, 4
6. Conflicts & Stress Concept of Conflict, Meaning of Conflicts, Different Levels of conflict, Conflict Resolution: Potential Sources of Conflict, Consequences of Conflict, Coping Strategies during Conflict. Concept of Stress, Resistance to Change, Overcoming Resistance to Change.	7.5	Lecture & Group Discussion	Test & Assignment	1, 2, 3, 4
7. Organizational Development Concept & Characteristics of Organizational Development, Benefits & Limitations of Organizational Development, Concept of Organizational-Citizenship Behavior. Meaning of Power, Concept and Types of Power.	7.5	Lecture & Class Participation	Test	4

Textbook(s)

Stephen P. Robbins, *Organizational Behavior: Concepts, Controversies, Application*, Prentice Hall of India.

Reference(s)

Newstrom, J.W, & Davis, K. *Organizational Behaviour: Human Behaviour at Work*. McGraw Hill Education.

Assessment and Evaluation



Bloom's Category	Quizzes	Assignments	Mid-term	Presentation	Final term	Total (100)
Remember	05		05		10	20
Understand	05	05	05	05	10	30
Apply			05		05	10
Analyze		05		05	10	20
Evaluate		05			05	10
Create		05	05			10
Total	10	20	20	10	40	100

Grading System: As per UGC recommendation

MGT-0413-305: ENTREPRENEURSHIP DEVELOPMENT AND SME MANAGEMENT

Credit Hours: 3

Course Rationale:

Developing an understanding of entrepreneurship and small business management by studying entrepreneurial strategies, and the ability of identifying new venture opportunities, and developing business plans are the core properties of this course.

Course Objective

This course focuses on the knowledge, skills, and attitude required for organizing and carrying out entrepreneurial activities. The course aims to develop the ability to analyze and understand the business situation in which entrepreneurs act.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understanding the dynamic role of entrepreneurship and SMEs
CLO2	Organizing and Managing SMEs
CLO3	Developing a Financial Plan and Control System of the Organization
CLO4	Strategic Business Planning for Different Forms of Business Ownership
CLO5	New Product or Service Development
CLO6	Negotiation and Intensive Interaction Skills

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	2	2	1
CLO2	3	3	2	2	1
CLO3	3	3	3	2	2
CLO4	2	3	3	3	3
CLO5	2	2	3	3	2
CLO6	2	2	2	3	3
Average	2.5	2.83	2.5	2.5	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs



Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Entrepreneurship Know Your Country, Globalization, Meaning of the term 'Entrepreneur', Deciding to be an Entrepreneur, Choosing a Business Mentor.	3	Lecture, Visual Presentation	Test	1
2. Preliminary Preparation to become a Successful Entrepreneur: Innovative Idea, Determination, Capacity Building, Family Support, Value Experience, Financing, Redundancy, Marketing Challenge, Technology & Networking, Target Revenue, Personal Branding, Overcoming Failure, Ownership, Challenges, Involvement, Demand of the Product, and Business Trend.	3	Lecture & Class Participation	Quizzes	1 and 2
3. Start-Up Business Business Plan, Flow-chart for SME Establishment, Trade License, Registration of RJSC, Export Process Flow Chart, Import Process Flow Chart, Business Plan Format.	6	Lecture & Business Plan Development Tasks	Business Plan Presentation	2 and 3
4. New Forms of Business Strategy Blue Ocean Strategy, Venture Capital, Angel Investment, Business Incubator, and More.	3	Lecture	Test & Quiz	3 and 4
5. Bangladesh Bank Initiative of Entrepreneurship Development; Initiatives of Bangladesh Government for Entrepreneurship Development SME Foundation, SCITI, BCSIR, and BSCIC.	3	Lecture	Assignment	3, 4 and 5

6. Entrepreneurial Leadership Discussion on 21st Century Leadership Qualities to become a Successful Entrepreneur.	6	Lecture	Test & Quiz	4 and 5
7. Investment Decisions and Financing Products & Services for SMEs Tools and techniques of investment decision, Short and Long term financing.	6	Lecture, Problem solving	Problem Solving Tasks	4, 5 and 6
8. Communication Skills for Entrepreneurs Verbal, Non-verbal, and Written Communication, Negotiation Power, Creating Powerful Image, Knowing Others through Gestures.	6	Lecture and Group Discussion	Public Speaking Competition	4, 5, and 6
9. International Business Opportunities Types of International Business, Strategies of International Business Operations.	3	Lecture and Visual Presentation	Case Study	5 and 6
10. Management of SMEs Good Employees are Valuable Assets, Management Functions, and their Applicability, Expected Attributes & Traits of a Successful Small Business Manager, Causes of failure as a Small Business Manager, Finding Right Man for the Right Position, Management style, and Motivation Theories.	6	Lecture and Class Activities	Class Activities	1, 2, 3, 4, 5 and 6

Textbook(s):

1. Jerzy Cieřlik, *Entrepreneurship in Emerging Economies: Enhancing its Contribution to Socio-Economic Development*, Palgrave Macmillan.
2. Matthias Fink and Sascha Kraus, *The management of Small and Medium Enterprises, Routledge Studies in Small Business*, Routledge.

Reference(s):

1. Calvin A. Kent, *The Environment Entrepreneurship*, Lexington Books.
2. Dr. A. R Khan, *Entrepreneurship and Small Business Development*.



3. Dr. Tanvir Mohammad Hayder Arif, *Liquidity Problems of Small Enterprises and the Role of Banks*, Available at www.amazon.com.

Assessment and Evaluation

Bloom's Category	Assignments/ Participation Viva	Quizzes	Mid-term	Final term	Total
Remember			05	03	05
Understand	05		05	04	05
Apply	05	05	05	04	05
Analyze		05	05	03	05
Evaluate		05		03	07
Create		05		03	03
Total	30	10	20	40	100

Grading System: As per UGC recommendation

MGT-0413-331: OPERATIONS AND SUPPLY CHAIN MANAGEMENT

Credit Hours: 3

Course Rationale:

This course will provide the students with an understanding of how the efficient management of operations can be a competitive weapon in manufacturing as well as service sectors. The students will also learn about the tools and techniques necessary to develop, implement, and sustain strategies for managing supply chain issues.

Course Objective

The course is designed to provide students with an overview of Operations and Supply Chain Management. It covers different aspects of Operations Management such as Production Planning, Capacity Planning, Process Management, Quality Control, Maintenance Measures and Technology used in Production Processes. The course will also help the students to learn about the strategic importance of supply chain design, planning and operations for every firm.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand the fundamentals of Operations Management
CLO2	develop the plan for capacity of Production Facilities and Production Schedule
CLO3	develop the plan and manage logistic support for Production Management
CLO4	develop the Quality Control Measures in Operations and Maintenance Measures in Operations Management

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	1	2	1	2
CLO2	2	3	3	2	2
CLO3	2	3	3	2	2
CLO4	3	3	3	2	2



Average	2.5	2.5	3	2	2
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(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Overview of Operations Management Operations As a Competitive Weapon, The scope of Operations Management; Operations Management and Decision Making; Historical Evolution of Operations Management; Trends in Business	3	Lecture	Class Test	1
2. Understanding the Supply Chain Introduction of Supply Chain; Historical Perspective; The Objective of a Supply Chain, The importance of Supply Chain Decisions; Decision Phases in a Supply Chain; Process Views of a Supply Chain	3	Lecture	Class Test	1
3. Operations Strategy Introduction; Competitiveness, Strategy; Productivity	3	Lecture	Assignment & Presentation	2
4. Designing Distribution Networks and Applications to Online Sales The Role of Distribution in the Supply Chain; Factors influencing Distribution Network Design; Design Options for a Distribution Network; Online Sales and Distribution Network; Distribution Networks Practice	6	Lecture & Presentation.	Midterm	2
5. Management of Quality Introduction; The Evolution of Quality Management, The Foundation of Modern Quality Management, Insights on Quality Management; Quality Awards; Quality Certification; Total Quality Management; Problem	9	Lecture & Presentation	Midterm	2,3



Solving; Process Improvement; Quality Tools				
6. Network Design in Supply Chain The Role of Network Design in the Supply Chain; Factors influencing Network Design Decisions; Framework for Network Design Decisions; Models for Facility Location and Capacity Allocation; Making Network Design Decisions in Practice; The Impact of Uncertainty on Network Design	6	Lecture	Midterm	3
7. Forecasting	6	Lecture	Final	2,3
8. Forecasting	3	Lecture	Final	2,3
9. Process Management	3	Lecture	Final	4
10. Process Management	3	Lecture	Final	4

Textbook(s)

OPERATIONS MANAGEMENT: 8th Edition - by William J. Stevenson

Assessment and Evaluation

Bloom's Category	Assignments & Presentation	Quizzes	Mid-term	Final term	Total
Remember	0	10	0	0	15
Understand	5	10	5	5	20
Apply	5	5	5	10	30
Analyze	10	5	5	5	20
Evaluate			5	5	10
Create				5	5
Total	20	30	20	30	100

Grading System: As per UGC recommendation

MGT-0413-490: STRATEGIC MANAGEMENT

Credit Hours: 3

Course Rationale:

This integrative course is designed to develop strategic leaders who will be able to run their organizations successfully in a changing environment. The course helps students to be familiar with effective strategy formulation and implementation to outperform the competitors through achieving sustainable competitive advantages.

Course Objective



Strategic management is a big picture course. It focuses on the concept of strategy formulation and implementation by exploring the functions and nature of general management. Unlike other business courses where the subject matter was narrowly focused at a particular function such as HRM, marketing, finance, accounting, production – this course deals with the company's entire making and environment. This is a capstone course that aims to expose students/managers to the topics relevant to managing their businesses strategically even in a tumultuous environment.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand the basic concepts of strategic management and strategic leadership
CLO2	Know the importance of creating sustainable competitive advantage for long-term success of an organization
CLO3	Scan the dynamics of internal and external environment to have a competitively superior fit between an organization and its changing environment
CLO4	Design and implement the appropriate strategies for different levels of an organization

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	2
CLO2	2	2	3	2	1
CLO3	1	1	3	3	3
CLO4	3	3	3	3	3
Average	2.5	2.5	3	2.5	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. An Invitation to Strategic Management (SM) Definition strategic Management, Importance of SM, objectives of SM, SM Process, types of Strategies: deliberate and emergent strategies, Strategic leadership	9	Lecture Case Analysis	Assignment Test	1
2. External Environment Analysis Identifying potential opportunities and threats, Industry analysis: five forces model, strategic group model,	6	Lecture Class Participation Case Analysis	Assignment Presentation Test	3

industry life cycle; scanning the macroenvironment: PEST/PESTEL model analysis				
3. Internal Environment analysis Identifying strengths and weaknesses, basic building blocks of competitive advantage, value chain analysis, determinants of durability of competitive advantages, reasons behind companies' failures, techniques for avoiding failure and sustaining competitive advantage.	6	Lecture Group Discussion Case Analysis	Assignment Test	3
4. Strategy Formulation Designing strategies in different functional areas of a business such as human resources, finance, supply chain, marketing, research and development, etc.	6	Lecture Group Discussion Case Analysis	Test Quiz	2, 4
5. Strategy formulation at business level cost leadership, differentiation, and focus strategies	6	Lecture Case analysis	Test Quiz	2, 4
6. Strategy formulation at corporate level stability, growth, and retrenchment strategies	6	Lecture Case Analysis	Test Quiz Assignment	2, 4
7. Strategy Implementation Managing governance and ethics, designing organization structure, culture, and organization controls	6	Lecture Case Analysis Group presentation	Test Quiz Assignment	1,2, 3, 4

Textbook(s)

Hill, C. W. L., & Jones, G. R. (2014). *Strategic Management: An Integrative Approach* (9th Edition), Cengage Learning: India.

Reference(s)

1. Hitt, M. A., Ireland, R. D., Hoskisson, R. E., & Manikuttu, S. (2012). *Strategic Management: A South-Asian Perspective* (9th Edition), Cengage Learning, India.
2. Thompson, A. A. J., Peteraf, M., Gamble, J. E., Strickland III, A. J. (2013). *Crafting & Executing Strategy: The Quest for Competitive Advantage: Concepts and Cases* (19th Edition), McGraw-Hill, USA.



3. Wheelen, T. L., Hunger, J. D., Hoffman, A. N., & Bamford, C. E. (2018). Strategic management and business policy: Globalization, innovation, and sustainability (15th Global Edition), Pearson, London.

Assessment and Evaluation

Bloom's Category	Class attendance and participation	Assignments/ Case Analysis/ Presentation	Quizzes	Mid-Term	Final-Term	Total
Remember	10		05			15
Understand	10		05			15
Apply		05		05	05	15
Analyze		05	10	05	05	25
Evaluate		05		05	05	15
Create		05		05	05	15
Total	20	20	20	20	20	100

Grading System: As per UGC recommendation

MIS-0612-201: FUNDAMENTALS OF MIS

Credit Hours: 3

Rationale of the Course

Informational systems have become a pivotal feature in contemporary business. Understanding the management practices associated with informational technology can make you an instant commodity for innovative companies. In today's world, it is essential to manage the storage, transmission and analysis of information. Studying the management of informational systems allows you to understand the demands put on employees and practical ethical challenges that may arise in the future.

Course Objective

Business students should be able to analyze different managerial models and implement proper Information technology to achieve better profitability for the organization. That is why, this 'Management Information Systems' course is taught as part of the BBA degree. Studying this course, students should be able to use information systems in operational and strategic management level.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Analyze different managerial models and implement proper Information technology to achieve better profitability for the organization
CLO2	Use Management Information Systems in operational and strategic management level
CLO3	Know how Information System is developed and the problems and solutions associated with the development
CLO4	Taking up information systems management positions in the future



Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	1	2	3
CLO2	3	3	3	3	3
CLO3	3	3	1	2	3
CLO4	3	3	3	3	3
Average	3	3	2	2.5	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Information Systems in Global Business Today Information System; Dimensions of Information System; Contemporary Approaches to Information System; the Role of Information System in Businesses Today- Transforming Business by Information Systems, Management Information Systems, The Emerging Digital Firm; Strategic Business Objectives of Information Systems, Business Information Value Chain, Complementary Asset.	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	1
2.Global E-Business and Collaboration Business Processes and Information Systems; Types of Information Systems- Systems for Different Management Groups, Systems for Linking the Enterprise, Systems for Collaboration and Teamwork; Business Benefits of Collaboration and Teamwork; Tools and Technologies for Collaboration and Teamwork	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	2
3.Information Systems, Organizations, and Strategy Organizations and Information Systems; Economic Impacts Organizational and Behavioral	5	Lecture, Case –study Discussion, Video	Test, Quiz, Assignment	4

Impacts of Information System over Organizations and business firm, Implications for the Design and Understanding of Information Systems; Using Information Systems to Achieve Competitive Advantage; Value web, Synergies.		session on the topic		
4. Ethical & social issues related to systems Key technology trends that raise ethical issues, Professional codes of conduct, Property rights: Intellectual property, Challenges to intellectual property rights.	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	2
5. IT infrastructure and emerging technology: Evolution of IT infrastructure, Infrastructure components: Computer hardware platform, Operating system platform, Data management & Storage, Telecommunication platform, Internet platform. Grid Computing, Cloud Computing. Linux, Java, Mashups & Widgets. Software Outsourcing.	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	2
6. Databases & Information Management DBMS, Relational DBMS, Object-Oriented DBMS, Querying, Reporting Normalization, Entity-Relationship Diagram, Data Warehouses, Data Marts, OLAP. Data Mining, Databases & the web.	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	5
7. Telecommunication, the internet & wireless technology Telecommunication & networking in today's business world, Internet Addressing & Architecture Domain Name System, IPV 6, Wireless technologies and VOIP.	5	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	3

8. Securing Information Systems System Vulnerability and Abuse; Business Value of Security and Control; Establishing a Framework for Security and Control; Technologies and Tools for Protecting Information Resources	4	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	3
9. Achieving Operational Excellence and Customer Intimacy: Enterprise Applications Enterprise Systems; Business Value of Enterprise Systems; Information Systems and Supply Chain Management; Global Supply Chains and the Internet; Business Value of Supply Chain Management Systems, Customer Relationship Management Systems; Business Value of Customer Relationship Management Systems; Enterprise Applications: New Opportunities and Challenges	3	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	5
10. Building Information Systems Business Process Reengineering, Completing Systems development process, Computer aided software engineering, Prototyping.	3	Lecture, Case –study Discussion, Video session on the topic	Test, Quiz, Assignment	5

Textbook(s)

1. Laudon, K.C. & Laudon, P., *Management information systems: Managing the digital firm*, 11th international edition, Pearson Education
2. O'Brien, J.A., *Management information systems: Managing information technology in the networked enterprise*, 8th ed, McGraw-Hill.

Assessment and Evaluation

Bloom's Category	Assignments	Quizzes	Lab	Mid-term	Final term	Total
Remember		05		04	05	14
Understand	04	05	05	04	05	23
Apply	04	05	05	04	05	23
Analyze	04		05	04	05	18
Evaluate	04			04	05	13
Create	04				05	09



Total	20	15	15	20	30	100
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Grading System: As per UGC recommendation

MKT-0414-201: PRINCIPLES OF MARKETING

Credit Hours: 3

Rationale of the Course:

The course provides students with an overview of the marketing function with an emphasis on creating value through market research, consumer behavior, pricing strategies, marketing channels, and various methods of promotion.

Course Objective

Principles of Marketing is an introductory course that is designed to give the students a clear idea regarding general marketing principles and practices.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Demonstrate understanding of marketing terminology and concepts
CLO2	Demonstrate an understanding of how marketing fits with the other business disciplines within an organization
CLO3	Understanding marketer's role in the strategic orientation of the business decision making through developing comprehensive marketing plan

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	1	2	1
CLO2	3	3	3	3	1
CLO3	3	3	3	3	2
Average	3	3	2.5	3	1.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Marketing in a changing world Definition of marketing, Goals of Marketing, Core Marketing Concepts, Developing the Marketing Mix, Marketing Management Philosophies, Building Customer Relationship, Connections with Marketing's	6	Lecture	Test	1



Partners, Major challenges in the connected world				
2. Company & Marketing Strategy Developing Marketing Strategies and Plans, Defining a Market- Oriented Mission, Setting Company Objectives and Goals, Designing the Business Portfolio, Planning & marketing other functional strategies	6	Lecture	Assignment & Test	2
3. Analyzing the Marketing Environment Key Environments, The Microenvironment, The Macro environment, Responding to the Marketing Environment	6	Lecture & Group Discussion	Assignment & Test	3
4. Marketing in the Digital Age Major Forces Shaping the Digital Age, E-Commerce Domains, Conducting E-Commerce, Promise and Challenges of E-Commerce	6	Lecture	Test & Quiz	3
5.Consumer Markets and Consumer Buying Behavior Model of Consumer Behavior, Factors Influencing Consumer Behavior, Characteristics Affecting Consumer Behavior, Types of Buying-Decision Behavior, The Buyer Decision Process, Stages in the Adoption Process	3	Lecture	Test & Quiz	3
6. Business Markets and Business Buyer Behavior Definition of Business Market, Business Buyer Behavior, Major Influences on Business Buyers, Institutional and Government Markets	3	Lecture	Quiz & Presentation	3
7. Market Segmentation, Target Marketing and Market Positioning Building the Right Relationships with the Right Customers, Market Segmentation, Target Marketing, Market Positioning	6	Lecture	Quiz & Presentation	3

8. Product, Service & Brand Strategy Decisions Definition of Product and Service, Product and Service Decisions, Branding Strategy, Services Marketing, Additional Product Considerations	3	Lecture and Group Discussion	Test	3
9.New-Product Development and Product Life-Cycle Strategies New Product Development Strategy, Product Life-Cycle Strategies, Marketing Strategies	3	Lecture	Test	3
10. Integrated Marketing Communication Strategy Definition of Integrated Marketing Communications, The Communication Process, Developing Effective Communication, Setting the Promotional Budget and Mix, Socially Responsible Communications	3	Lecture	Test	3

Textbook(s)

1. Textbook: Principles of Marketing, Philip Kotler & Gray Armstrong 13th Edition
2. Marketing, 5th edition by Druv Grewal and Michael Levy, McGraw-Hill Irwin.

Assessment and Evaluation

Bloom's Category	Assignments/ Presentation	Quizzes	Mid-term	Final term	Total
Remember		10	05	05	20
Understand	05		05	15	20
Apply			05	10	15
Analyze			05	15	20
Evaluate			05	05	10
Create	05		05	05	15
Total	10	10	30	50	100

Grading System: As per UGC recommendation

Major & Minor Courses of Supply Chain Management:

A GROUP:

SCM-0413-351: DEMAND PLANNING AND FULFILLMENT

Credit Hours: 3

Course Rationale

Demand planning and fulfillment are critical components of supply chain management, enabling organizations to predict customer demand and align their operations accordingly. This course is designed to equip students with the necessary skills and knowledge to effectively manage demand forecasting and fulfillment processes.

Course Description

This course explores the principles and practices of demand planning and fulfillment within supply chain management. It focuses on forecasting methods, inventory management, and strategies for effectively meeting customer demand while minimizing costs. Additionally, by equipping students with the skills to accurately forecast demand and efficiently fulfill it, the course prepares them to contribute effectively to their organizations and adapt to the evolving landscape of global supply chains.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Analyze and apply various demand forecasting methods, including quantitative and qualitative approaches, to accurately predict customer demand and optimize inventory levels.
CLO2	Develop the ability to coordinate effectively across different supply chain functions, ensuring alignment between demand planning and production, procurement, and distribution processes.
CLO3	Gain proficiency in utilizing data analytics tools to assess demand trends, evaluate performance metrics, and make informed decisions that enhance fulfillment strategies.
CLO4	Equip to design and implement effective demand planning systems and tools, understanding best practices for continuous improvement and responsiveness to market changes.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	2	2	1
CLO2	3	3	3	2	3
CLO3	2	3	3	3	2
CLO4	1	3	3	3	2



Average	2.25	3	2.75	2.5	2
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(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Demand Planning Overview of Demand Planning, Relationship between demand planning and supply chain management, Key Concepts: Demand variability and its impact, The bullwhip effect.	3	Lecture	Assignment & Test	1
2. Forecasting Techniques Quantitative Forecasting Methods: Time series analysis, Causal models, Qualitative Forecasting Techniques: Market research and surveys, Expert judgment and focus groups, Choosing the Right Forecasting Method: Factors influencing method selection, Accuracy measurement and error analysis.	6	Lecture Class Participation	Assignment & Test	1, 2
3. Inventory Management Fundamentals Types of Inventories: Raw materials, work-in-progress, finished goods, Inventory Control Techniques: ABC analysis, Economic Order Quantity (EOQ), Just-in-Time (JIT) inventory, Safety Stock and Reorder Points: Calculating safety stock levels, Reorder point strategies.	6	Lecture Group presentation Case Analysis	Assignment & Test	2, 3, 4
4. Demand Planning Process Steps in the Demand Planning Process: Data collection and analysis, Collaborative planning, forecasting, and replenishment (CPFR), Role of Technology in Demand Planning: Demand	3	Lecture Group Discussion	Test & Quiz	2, 3, 4

planning software tools, Integration with ERP systems.				
5. Fulfillment Strategies Understanding Fulfillment: Definition and importance in supply chain, Fulfillment Models: Centralized vs. decentralized fulfillment, Direct shipping and drop shipping, Order Management Systems: Key functions and features, Impact on customer satisfaction.	4.5	Lecture Class participation	Test & Quiz	2, 3, 4
6. Aligning Demand and Supply Sales and Operations Planning (S&OP): Overview of the S&OP process, Role of collaboration in S&OP, Balancing Demand and Supply: Strategies for managing demand fluctuations, Capacity planning and resource allocation.	6	Lecture Case Analysis	Test & Quiz Project	2, 3, 4
7. Performance Measurement and Improvement Key Performance Indicators (KPIs) for Demand Planning: Forecast accuracy, Inventory turnover, Continuous Improvement Techniques: Lean principles in demand fulfillment, Root cause analysis and corrective actions.	4.5	Lecture Class participation	Test & Quiz	2, 3, 4
8. Case Studies and Real-World Applications Analysis of Successful Demand Planning: Case studies from various industries, Lessons learned and best practices, Practical Exercises: Demand planning simulations, Group discussions on real-world scenarios.	6	Lecture Class participation	Test & Quiz	1, 2, 3, 4
9. Future Trends in Demand Planning and Fulfillment	6	Lecture Group Discussion	Test & Quiz	1, 2, 3, 4

Emerging Technologies: Artificial Intelligence and machine learning in forecasting, Big data analytics, E-commerce and Consumer Behavior Trends: Impact of online shopping on demand planning, Adapting to changing consumer expectations.		Case Analysis		
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Textbook(s)

1. *Demand Planning: A Structured Approach* by C. John Langley Jr.
2. *Demand Driven Forecasting: A Structured Approach to Forecasting* by John T. Mentzer and Matthew B. Myers
3. *The Fundamentals of Demand Planning* by Eric T. G. N. Teo

Reference(s)

1. *Supply Chain Management: Strategy, Planning, and Operation* by Sunil Chopra and Peter Meindl
2. *Sales and Operations Planning: The How-To Handbook* by Thomas F. Wallace and Robert A. Stahl
3. *Operations Management* by Jay Heizer and Barry Render

Assessment and Evaluation

Bloom's Category	Class attendance and participation	Assignments/ Case Analysis/ Presentation	Quizzes	Mid-Term	Final-Term	Total
Remember	05		05			10
Understand	05		05			10
Apply		05		05	05	15
Analyze	05	05	10	05	05	30
Evaluate	05	05		05	05	20
Create		05		05	05	15
Total	20	20	20	20	20	100

Grading System: As per UGC recommendation

SCM-0413-352: FREIGHT FORWARDING, LOGISTICS AND SHIPPING

Credit Hours: 3

Course Rationale

The global economy relies heavily on efficient movement and management of goods across borders. The Freight Forwarding, Logistics, and Shipping Course aims to equip students with



the knowledge and skills necessary to navigate the complex world of freight forwarding, logistics, and shipping.

Course Description

This course provides an in-depth understanding of the logistics and supply chain processes involved in freight forwarding, shipping, and overall logistics management. It covers key concepts, practices, and regulatory frameworks essential for effective operation in the global marketplace. Moreover, this course is designed to meet the demands of a dynamic industry, preparing students for successful careers while addressing the challenges and opportunities of global trade. By the end of the course, students will possess a comprehensive understanding of the logistics ecosystem, enabling them to contribute effectively to the field.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Demonstrate the ability to prepare and manage essential shipping documents, including bills of lading, packing lists, and customs declarations, ensuring compliance with international regulations.
CLO2	Evaluate various transportation modes (air, sea, rail, road) and select the most effective option for specific shipping needs, considering cost, speed, and cargo type.
CLO3	Identify potential risks in logistics and freight forwarding operations and develop comprehensive strategies to mitigate these risks effectively.
CLO4	Exhibit strong communication and problem-solving skills to effectively manage customer relationships and resolve logistics-related issues, ensuring high levels of client satisfaction.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	2	1	1
CLO2	2	1	3	2	3
CLO3	3	3	3	3	2
CLO4	2	2	3	2	2
Average	2.5	2	2.75	2	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Logistics and Supply Chain Management Definition and importance of Logistics, Evolution of logistics,	9	Lecture & Class Participation	Test & Quiz	1

Components of supply chain, Role of logistics in supply chain management, Key Concepts of Inventory management, Warehousing and Transportation.				
2. Freight Forwarding Basics Definition and Role of Freight Forwarders, Types of Freight Forwarding: Air, sea, road, and rail, Key Documentation: Bill of lading, Air waybill, Commercial invoice and packing list	6	Lecture	Test & Quiz	1
3. International Shipping and Regulations Overview of International Trade: Import/export processes, Legal and Regulatory Framework: Incoterms, Customs regulations and compliance, Trade Agreements and Policies: Regional trade agreements, Impact of tariffs and quotas.	4.5	Lecture & Group Discussion	Test & Assignment	2
4. Transportation Management Modes of Transportation: Comparison of air, sea, road, and rail, Factors influencing mode selection, Transportation Planning and Optimization: Route planning, Load optimization, Risk Management in Transportation: Common risks and mitigation strategies.	4.5	Lecture & Group Discussion	Test & Assignment	2
5. Warehouse Management Warehouse Operations: Functions of a warehouse, Warehouse layout and design, Inventory Control: Techniques and technologies, Just-in-time (JIT) inventory, Automation and Technology in Warehousing: Warehouse Management	6	Lecture	Test & Presentation	3

Systems (WMS), Emerging technologies (RFID, robotics).				
6. Supply Chain Optimization Strategies for Supply Chain Improvement: Lean logistics, Six Sigma in logistics, Performance Measurement: Key Performance Indicators (KPIs), Benchmarking practices, Sustainability in Logistics: Green logistics practices, Corporate social responsibility in supply chains.	4.5	Lecture & Group Discussion	Test	3, 4
7. Case Studies and Practical Applications Real-world Case Studies: Analysis of successful freight forwarding companies, Challenges and solutions in logistics management, Practical Exercises: Role-playing freight forwarding scenarios, Document preparation and compliance exercises	4.5	Lecture	Test & Presentation	1, 2, 3, 4
8. Future Trends in Freight Forwarding and Logistics Emerging Technologies: Blockchain in logistics, Artificial Intelligence and machine learning, E-commerce and Its Impact: Trends in e-commerce logistics, Last-mile delivery challenges, Global Challenges and Opportunities: Impact of geopolitical issues, Future of global trade	6	Lecture Case Analysis Assignment	Project report Test	1, 2, 3, 4

Textbook(s)

1. *Logistics and Supply Chain Management* by Martin Christopher
2. *Maritime Logistics: A Guide to Contemporary Shipping and Port Management* by Dong-Wook Song and Photis Panayides
3. *Freight Forwarding and Multi-Modal Transport Contracts* by David L. L. Jones

Reference(s)



1. *Introduction to Logistics Systems* by Gianpaolo Ghiani, Gilbert G. Laporte, and Ramiro Pascoal
2. *Global Logistics and Supply Chain Management* by John Mangan, Chandra Lalwani, Tim Butcher, and Roya Javadpour
3. *Logistics Management and Strategy: Competing Through the Supply Chain* by Alan Harrison and Remko van Hoek

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Midterm	Presentation	Final Term	Total
Remember	05		05		10	20
Understand	05		05	05	10	25
Apply		05	05		05	15
Analyze		05		05	10	20
Evaluate		05			05	10
Create		05	05			10
Total	10	20	20	10	40	100

Grading System: As per UGC recommendation

SCM-0413-353: SUSTAINABLE PROCUREMENT AND OUTSOURCING

Credit Hours: 3

Course Rationale

This course provides students with an understanding of sustainable practices within supply chains and procurement, emphasizing environmental impact reduction, ethical sourcing, and sustainable outsourcing. The goal is to develop skills to create supply chains that support long-term economic, environmental, and social objectives.

Course Objective

This course introduces the concepts of green supply chain management, sustainable procurement, and responsible outsourcing. Key topics include sustainability frameworks, life cycle analysis, ethical procurement, and the role of outsourcing in achieving sustainability goals. Students will explore how organizations can reduce their environmental footprint and create sustainable value while aligning with global best practices and stakeholder expectations.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand and explain the principles and practices of green supply chain management, including key concepts such as carbon footprint reduction, life cycle analysis, and sustainable logistics.
CLO2	assess and apply sustainable procurement strategies to promote ethical sourcing, supplier collaboration, and sustainable resource management.



CLO3	design and evaluate sustainable outsourcing strategies considering environmental impact, social responsibility, and economic viability.
CLO4	analyze the role of regulatory frameworks and global standards in guiding sustainable practices within supply chains and procurement processes.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	1	1	2
CLO2	2	3	2	2	3
CLO3	3	3	3	3	2
CLO4	3	2	3	2	1
Average	2.5	2.5	2.25	2	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Green Supply Chain Management (GSCM) and circular economy Concept of GSCM, sustainability drivers, environmental impacts of supply chains, life cycle analysis, carbon footprint calculation, Circular Economy: 6R/9R principles, closed-loop system, reverse logistics and take-back schemes.	9	Lecture & Class Participation	Test & Quiz	1, 2
2. Sustainable Procurement Ethical sourcing, supplier collaboration, sustainable resource management, supply chain transparency	7.5	Lecture	Test & Assignment	2
3. Sustainable Logistics and Green Transportation Transportation modes, carbon offset strategies, logistics optimization, fuel efficiency	6	Lecture & Class Participation	Test, Presentation & Assignment	1, 3
4. Sustainable Outsourcing Outsourcing models, environmental and social responsibility, circular supply chain	4.5	Lecture & Group Discussion	Test & Presentation	3

5. Regulatory and Compliance Frameworks Overview of regulations, global sustainability standards, CSR	4.5	Lecture & Case Study Analysis	Test & Assignment	4
6. Sustainable Supply Chain Innovation Emerging trends, technology in sustainable supply chains, blockchain, AI	7.5	Lecture & Project-Based Learning	Presentation	1, 4
7. Final Case Study and Integration of Sustainable Practices Study of historical and contemporary Examples and Cases	6	Group Discussion & Practical Application	Final Presentation	1, 2, 3, 4

Textbook(s)

1. Colleen Theron and Malcolm Dowden, *Sustainable Procurement: Tools and Practices*, Routledge.
2. Joseph Sarkis, *Green Supply Chain Management: Product Life Cycle Approach*, Springer.

Reference(s)

1. K. Lyons, *A Roadmap to Green Supply Chains - Using Supply Chain Archaeology and Big Data Analytics*, Industrial Press
2. Stanley E. Fawcett, Lisa M. Ellram & Jeffrey A. Ogden, *Supply Chain Management: from vision to implementation*, Prentice Hall
3. Ronald H. Ballou, *Business Logistics & Supply Chain Management*, Prentice Hall.
4. Martin Christopher, *Logistics and Supply Chain Management*, Prentice Hall

Recommended Software

1. SimaPro or GaBi for life cycle analysis.
2. Tableau for data visualization.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Midterm	Presentation	Final Term	Total
Remember	05				05	10
Understand	05		05	05	05	20
Apply		10	05		05	15
Analyze		05		05	05	15
Evaluate		05	05	05	05	20
Create		05	05		05	15
Total	10	25	20	15	30	100

Grading System: As per UGC recommendation

SCM-0413-354: INTERNATIONAL SUPPLY CHAIN MANAGEMENT

Credit Hours: 3

Course Rationale

This course is designed to provide students with an in-depth understanding of international supply chain management, focusing on the strategic and operational aspects that drive efficiency, cost-effectiveness, and resilience. It aims to equip students with the skills needed to analyze, design, and improve supply chain processes in a globalized context, which is crucial in today's interconnected world.

Course Objective

This course introduces the core principles, strategies, and challenges of managing supply chains across borders. Students will explore key topics, including supply chain network design, logistics, sourcing strategies, risk management, and the impact of globalization on supply chains. Emphasis is placed on developing critical thinking and problem-solving skills through case studies and real-world applications. By the end of the course, students will understand how to leverage supply chain strategies to enhance organizational competitiveness and adaptability in global markets.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand the fundamental concepts of global supply chain management, including supply chain structures, logistics, and sourcing.
CLO2	analyze and evaluate global sourcing and procurement strategies within complex supply chains.
CLO3	assess risks and develop risk mitigation strategies in global supply chains.
CLO4	apply supply chain management tools and techniques for effective decision-making and performance optimization.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	1	1	1
CLO2	1	3	3	2	3
CLO3	3	1	2	3	2
CLO4	2	3	2	3	2
Average	2.25	2.25	2	2.25	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs



Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to International Supply Chains Understanding global supply chain structures, logistics, key elements, and stakeholders.	6	Lecture & Class Participation	Test & Quiz	1
2. Global Sourcing and Procurement Global sourcing strategies, supplier selection, procurement, and outsourcing.	6	Lecture & Case Study	Test & Quiz	2
3. Risk Management in Supply Chains Identifying and mitigating risks, resilience planning, and global uncertainties.	6	Lecture & Group Discussion	Test & Assignment	3
4. Supply Chain Network Design Network design considerations, facility location, and transportation.	6	Lecture & Group Discussion	Test & Project	4
5. Technology in Global Supply Chains Role of technology, data analytics, and digital tools in managing global supply chains.	6	Lecture & Practical Sessions	Test & Presentation	4
6. Documentation for International Trade Finance Commercial Invoice, Bill of Exchange / Draft, Promissory Notes, Certificates of Origin; Bill of Lading (B/L), Air Waybill (AWB), Sea Waybill, Road Consignment Note (CMR), Packing List and Insurance Certificate; Letter of Credit (L/C), Standby Letter of Credit (SBLC) and Bank Guarantees, Customs Documentation, Insurance and Risk Coverage Documents.	6	Lecture & Practical Sessions	Test & Presentation	2, 4

7. Ethical and Sustainable Supply Chains Sustainability, ethics, and corporate responsibility in global supply chains.	4.5	Lecture & Case Studies	Test & Assignment	3
8. Future Trends in Global Supply Chains Examining emerging trends, globalization challenges, and adaptation strategies.	4.5	Lecture & Group Discussion	Test & Presentation	4

Textbook(s)

1. Chopra, S., & Meindl, P., *Supply Chain Management: Strategy, Planning, and Operation*, Pearson.
2. Martin Christopher, *Logistics and Supply Chain Management*, Prentice Hall.

Recommended Software

1. SAP ERP
2. Microsoft Excel for Supply Chain Analysis

Reference(s)

1. Simchi-Levi, D., Kaminsky, P., & Simchi-Levi, E., *Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies*, McGraw-Hill.
2. Basu, R., *Managing Global Supply Chains: Contemporary Global Challenges in Supply Chain Management*, Routledge.
3. Mentzer, J., Myers, M., and Stank, *Handbook of Global Supply Chain Management*, Sage Publications.
4. Ronald H. Ballou, *Business Logistics & Supply Chain Management*, Prentice Hall.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Mid-term	Presentation	Final-term	Total
Remember	05				10	15
Understand	05		05	05	10	25
Apply		05	05	05	05	20
Analyze		05			10	15
Evaluate			05		05	10
Create		05	05	05		15
Total	10	15	20	15	40	100

Grading System: As per UGC recommendation

SCM-0413-355: SIX SIGMA AND LEAN MANAGEMENT



Credit Hours: 3

Course Rationale

The purpose of this course is to equip students with a comprehensive understanding of Six Sigma and Lean Management methodologies. Additionally, it aims to enable them to apply these tools and techniques to improve processes, reduce waste, and enhance quality, ultimately leading to increased organizational efficiency and societal benefits.

Course Description

This course introduces the principles of Six Sigma and Lean Management, emphasizing methodologies and tools designed to enhance business process efficiency and effectiveness. Key topics will include Six Sigma's DMAIC framework, Lean principles and techniques, value stream mapping, performance metrics, and the application of statistical analysis in process improvement. Students will develop an understanding of the critical role of continuous improvement in driving organizational success, the importance of data-driven decision-making, and strategies for implementing these methodologies across various business functions.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	understand key Lean Six Sigma principles, tools, and benefits, including value stream mapping, lean culture, the DMAIC process, and Minitab.
CLO2	define and measure process performance using various tools and analyze process data using techniques such as fishbone diagrams, hypothesis testing, and regression analysis.
CLO3	improve and control processes by implementing solutions, conducting risk assessments, applying statistical process control, and using control plans to sustain improvements.
CLO4	understand change management concepts and their application in organizational settings to effectively lead and support transitions.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	2	1	1
CLO2	2	1	3	2	3
CLO3	3	3	3	3	2
CLO4	2	2	3	2	2
Average	2.5	2	2.75	2	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
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1. Lean Six Sigma Introduction, Concepts, Lean Culture and Tools, Value Stream Mapping. Lean and Six Sigma history, Strategic business benefits, Value added and non-value-added principles, Eight wastes of lean, Value stream mapping, Lean thinking and culture, Lean tools, Toyota Production System.	9	Lecture & Class Participation	Test & Quiz	1
2. Six Sigma Overview; Minitab Introduction Six Sigma overview, DMAIC introduction, Minitab introduction.	6	Lecture	Test & Quiz	1
3. Six Sigma: Define, Measure VOC, CTQ, SIPOC, Team charter; Process flowchart, Process yield, Specification limit, Measurement system analysis, Data collection, Basic statistics, Process sigma.	7.5	Lecture & Group Discussion	Test & Assignment	2
4. Six Sigma: Analyze 5-Whys, Fishbone diagram, Control chart, Pareto chart, Hypothesis testing, Regression analysis, Design of Experiments (DOE).	7.5	Lecture & Group Discussion	Test & Assignment	2
5. Six Sigma: Improve, Control Brainstorming, Solution prioritization matrix, Implementation, Risk assessment (FMEA), Sustaining the gains, Statistical process control, Documentation (SOP), Control plans (PDCA).	6	Lecture	Test & Presentation	3
6. Design for Six Sigma DMAIC practice, DFSS introduction.	4.5	Lecture & Group Discussion	Test	3
7. Change Management Change management concepts	4.5	Lecture	Test	4

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Textbook(s)

1. Rother M. and hook J., *Learning to See: Value Stream Mapping to add value and Eliminate Muda*, Lean Enterprise Institute, Brookline, MA.
2. Howard S. Gitlow, Richard J. Melnyck and David M. Levine, *A Guide to Six Sigma and Process Improvement for Practitioners and Students*. Pearson.

Recommended Software

Minitab (<http://www.minitab.com>)

Reference(s)

1. Jeffrey Liker, *The Toyota Way*, Tata McGraw-Hill
2. Tapping, D., Luyster, T., & Shuker, T., *Value stream management: Eight steps to planning, mapping, and sustaining lean improvements*, Productivity Press.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Midterm	Presentation	Final Term	Total
Remember	05		05		10	20
Understand	05		05	05	10	25
Apply		05	05		05	15
Analyze		05		05	10	20
Evaluate		05			05	10
Create		05	05			10
Total	10	20	20	10	40	100

Grading System: As per UGC recommendation

B GROUP:

SCM-0114-304: APPLIED ANALYTICS FOR OPERATIONS, SUPPLY CHAIN AND LOGISTICS

Credit Hours: 3

Course Rationale

The modern business environment is characterized by rapid changes and an overwhelming amount of data. Organizations must leverage analytics to enhance decision-making, optimize operations, and maintain a competitive edge. By integrating analytical methods with practical applications, students will emerge equipped to contribute effectively to their organizations, driving innovation and efficiency in operations, supply chain, and logistics.

Course Description



This course explores the application of analytical techniques to enhance decision-making in operations, supply chain management, and logistics. Students will learn to utilize data analysis, modeling, and optimization methods to improve efficiency and effectiveness in these domains. Also aims to equip students with the analytical tools and techniques necessary for effective management in operations, supply chain, and logistics.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Understand key concepts in operations, supply chain, and logistics analytics including descriptive, predictive, and prescriptive analytics, and their applications in operations and supply chain contexts.
CLO2	Apply statistical methods and data analysis techniques to real-world problems with hands-on analytical tools and software commonly used in the industry (e.g., Excel, R, Python, and specialized supply chain software).
CLO3	Utilize optimization models for decision-making by using case studies and projects to demonstrate the application of analytics in real-world supply chain scenarios, allowing students to connect theory to practice.
CLO4	Foster a strategic mindset by teaching students to formulate and evaluate analytical approaches that align with organizational goals.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	2	2	1
CLO2	3	3	3	2	3
CLO3	2	3	3	3	2
CLO4	1	3	3	3	2
Average	2.25	3	2.75	2.5	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Analytics in Operations. Overview of operations, supply chain, and logistics, Importance of analytics in decision-making, Role of analytics in business operations.	3	Lecture	Assignment & Test	1
2. Data Fundamentals Types of data: qualitative vs. quantitative, Data collection	3	Lecture Class Participation	Assignment & Test	1, 2

methods and sources, Collect and prepare data for analysis.				
3. Descriptive Analytics Data visualization techniques, Key performance indicators (KPIs) in operations and supply chain, Visualization tools to interpret data.	6	Lecture Group presentation Case Analysis	Assignment & Test	2, 3, 4
4. Predictive Analytics Introduction to predictive modeling, Regression analysis and forecasting techniques, Predictive models to anticipate future trends.	3	Lecture Group Discussion	Test & Quiz	2, 3, 4
5. Prescriptive Analytics Optimization techniques, Decision-making models, Formulate and solve optimization problems.	3	Lecture Class participation	Test & Quiz	2, 3, 4
6. Inventory Management Analytics Inventory optimization strategies, Economic Order Quantity (EOQ) and Just-in-Time (JIT) systems, Analytics to manage inventory levels effectively.	6	Lecture Case Analysis	Test & Quiz Project	2, 3, 4
7. Supply Chain Network Design Network modeling and simulation, Factors affecting supply chain design, Design efficient supply chain networks.	3	Lecture Class participation	Test & Quiz	2, 3, 4
8. Transportation and Logistics Analytics Route optimization and transportation management, Costs analysis in logistics, Transportation strategies using analytics.	3	Lecture Class participation	Test & Quiz	2, 3, 4

9. Risk Management in Supply Chain Identifying and assessing risks in the supply chain, Analytical methods for risk mitigation, Strategies to manage supply chain risks.	3	Lecture Group Discussion Case Analysis	Test & Quiz	2, 3, 4
10. Technology in Supply Chain Analytics Role of big data, AI, and IoT in supply chain, Emerging trends in supply chain analytics, Technology enhances supply chain decision-making.	3	Lecture Group Discussion Case Analysis	Test & Quiz	1, 2, 3, 4
7. Case Studies in Applied Analytics Review of successful analytics applications in various industries, Real-world applications of analytics in supply chains.	3	Lecture Case Analysis Group presentation	Assignment	1,2, 3, 4
8. Final Project Presentations Synthesize course knowledge into a comprehensive analytics project, Present final projects focusing on a specific operations or supply chain problem.	6	Group presentation Case Analysis Assignment	Project report Test	1, 2, 3, 4

Textbook(s)

1. "Operations and Supply Chain Management" by F. Robert Jacobs and Richard B. Chase
2. "Supply Chain Analytics: Using Data to Optimise Supply Chain Processes" by J. W. (Bill) Hines, et al.
3. "Data Science for Supply Chain Forecasting" by Nicolas Vandepuut

Reference(s)

1. "Logistics and Supply Chain Management" by Martin Christopher
2. "Applied Analytics through Case Studies Using SAS and R" by Deepti Gupta
3. "Operations Research: An Introduction" by Taha H. M.

Recommended Software

Excel, R, Python

Assessment and Evaluation



Bloom's Category	Class attendance and participation	Assignments/ Case Analysis/ Presentation	Quizzes	Mid-Term	Final-Term	Total
Remember	05		05			10
Understand	05		05			10
Apply		05		05	05	15
Analyze	05	05	10	05	05	30
Evaluate	05	05		05	05	20
Create		05		05	05	15
Total	20	20	20	20	20	100

Grading System: As per UGC recommendation

SCM-0413-402: SPECIAL ISSUES IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT
Credit Hours: 3

Course Rationale

This course aims to provide students with in-depth knowledge of emerging challenges and special issues in the field of Operations and Supply Chain Management (OSCM). Students will examine dynamic trends, innovations, and complex operational concerns that influence global supply chains. Topics such as risk management, sustainability, digital transformation, and ethical issues in supply chain practices are emphasized to prepare students to navigate and lead within complex OSCM environments.

Course Objective

To equip students with critical insights and practical skills to identify, analyze, and address contemporary challenges in operations and supply chains. The course encourages problem-solving, ethical reasoning, and adaptability to global standards.

Course Learning Outcomes (CLO)

At the end of the course, students will be able to:

CLO1	Describe and critically evaluate special issues in OSCM, including ethical sourcing, sustainability, and risk management.
CLO2	Analyze the impact of technology and digital transformation on OSCM processes and performance.
CLO3	Apply frameworks to assess and mitigate risks within supply chain operations in diverse and globalized environments.
CLO4	Develop strategies to address complex supply chain issues using case studies and best practices.

Mapping of CLOs to PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5
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CLO1	3	2	1	1	2
CLO2	2	3	2	2	3
CLO3	3	3	3	3	2
CLO4	3	2	3	2	1
Average	2.75	2.5	2.25	2	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Special Issues in OSCM Overview of OSCM trends and challenges, Identifying special issues in global supply chains, Role of OSCM in achieving competitive advantage	6	Lecture & Class Discussion	Quiz, Participation	1
2. Sustainability in Supply Chain Principles of sustainable operations, Environmental, social, and governance (ESG) factors, Circular supply chains and resource efficiency	7.5	Case Studies, Group Work	Assignment, Presentation	1
3. Risk Management in Supply Chains Identifying and assessing risks in supply chains, Strategies for supply chain risk mitigation, Building resilient supply chains	7.5	Lecture, Case Analysis	Test, Case Study	3
4. Ethical Sourcing and Corporate Social Responsibility Defining ethical sourcing standards, Corporate Social Responsibility (CSR) practices, Supplier audits and transparency	6	Lecture & Group Discussion	Assignment, Presentation	1, 4
5. Digital Transformation and Technology in OSCM Role of IoT and data analytics in supply chains, Automation	6	Lecture, Industry Guest	Quiz, Test	2

and artificial intelligence (AI) applications, Blockchain for supply chain transparency		Speaker Session		
6. Globalization and Supply Chain Resilience Impact of globalization on supply chain dynamics, Strategies for enhancing supply chain resilience, Managing geopolitical risks	6	Lecture, Practical Examples	Presentation, Case Study	3, 4
7. Special Topics in Supply Chain (Industry Trends) Emerging trends (e.g., green logistics, 3D printing), Industry 4.0 and the future of supply chains, Case studies of innovative OSCM practices	6	Seminar, Project-Based Learning	Final Project Presentation	1, 2, 3, 4

Textbook(s)

Coyle, J. J., Langley, C. J., & Gibson, B. J. *Supply Chain Management: A Logistics Perspective*. South-Western Cengage Learning.

Reference(s)

1. Chopra, S., & Meindl, P. *Supply Chain Management: Strategy, Planning, and Operation*. Pearson.
2. Christopher, M. *Logistics and Supply Chain Management*. Prentice Hall.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Midterm	Presentation	Final Term	Total
Remember	5				5	10
Understand	5	5	5	5		20
Apply		10	5		5	20
Analyze			5	5	5	15
Evaluate		5	5	5		15
Create				5	15	20
Total	10	20	20	20	30	100

Grading System: As per UGC recommendation

SCM-0413-403: MATERIALS MANAGEMENT

Credit Hours: 3

Course Rationale



This course is designed to provide students with essential knowledge in materials management, covering inventory control, procurement, warehousing, and distribution. It focuses on optimizing material flows, improving efficiency, and minimizing costs, contributing to a well-rounded understanding of supply chain and logistics.

Course Description

Materials Management is a crucial aspect of Supply Chain Management, focusing on the effective and efficient handling of materials from procurement to distribution. This course provides students with a comprehensive understanding of material management principles, including inventory control, procurement strategies, warehousing, and sustainable practices. Through a combination of theoretical frameworks and practical applications, students will explore methods to optimize material flow, reduce costs, and improve supply chain efficiency. Emphasis will be placed on inventory optimization, vendor selection, ethical sourcing, and sustainable material handling to prepare students for real-world challenges in material management.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO1	Understand and explain key concepts and strategies in material management, including procurement and inventory management.
CLO2	Assess and apply inventory control techniques to maintain optimal stock levels and reduce holding costs.
CLO3	Evaluate warehousing and distribution strategies for efficiency and effectiveness.
CLO4	Analyze and implement sustainable practices in material management to enhance overall supply chain resilience.

Mapping of CLOs to PLOs

CLOs/PLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	2	1	1	2
CLO2	2	3	2	2	3
CLO3	3	3	3	3	2
CLO4	3	2	3	2	1
Average	2.75	2.5	2.25	2	2

Integration Level: 3-High, 2-Medium, 1-Low

Course Plan: Teaching-Learning & Assessment Strategy Mapped with CLOs

Topics	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Materials Management Importance of material	6	Lecture & Class Participation	Test & Quiz	1



management in supply chains, overview of inventory, procurement, and warehousing				
2. Inventory Control Techniques EOQ, reorder points, safety stock, ABC analysis	9	Lecture & Group Discussion	Test & Assignment	2
3. Procurement and Sourcing Vendor selection, sourcing strategies, ethical procurement	6	Lecture & Case Study Analysis	Test & Assignment	1, 2
4. Warehousing and Storage Solutions Warehousing types, storage methods, warehouse layout, automation	6	Lecture & Field Visit	Test, Presentation & Assignment	3
5. Material Handling and Transportation Material flow, transportation modes, packaging, and logistics	6	Lecture & Group Project	Test & Presentation	3
6. Sustainable Material Management	6	Lecture & Case Studies	Test & Presentation	4

Reducing waste, eco-friendly materials, sustainable procurement practices				
7. Final Case Study Analysis Integrative project on managing material flows within a supply chain	6	Group Project & Practical Application	Final Presentation	1, 2, 3, 4

Textbooks and References

1. Arnold, J. R. Tony, et al. *Introduction to Materials Management*. Pearson.
2. Bowersox, Donald J., et al. *Supply Chain Logistics Management*. McGraw-Hill.
3. Chopra, Sunil, and Peter Meindl. *Supply Chain Management: Strategy, Planning, and Operation*. Pearson.

Recommended Software

1. SAP ERP for material management and procurement simulation.
2. Excel and Inventory Management Software for practical exercises.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Midterm	Presentation	Final Term	Total
Remember	05				05	10
Understand	05	05	05	05	05	25
Apply		10	05		05	20
Analyze		05		05	05	15
Evaluate		05	05	05	05	20
Create			05		05	10
Total	10	25	20	15	30	100

Grading System: As per UGC recommendation

SCM-0413-340: MANAGEMENT SCIENCE

Credit Hours: 3

Course Rationale

In the age of Big Data and Artificial Intelligence, management needs scientific approach taking all the data and fitting into quantitative models. This course will provide an



introduction to an area of management science that is sometimes called quantitative methods or operations research. The objective of this course is to have students develop an appreciation of the management science approach to problem formulation and solution that is now so important in today's business and industrial sectors.

Course Description

This course is about an introduction to an area of management science that is sometimes called quantitative methods or operations research. The objective of this course is to have students develop an appreciation of the management science approach to problem formulation and solution that is now so important in today's business and industrial sectors. The course focuses on quantitative approaches to decision making and introduces a variety of management sciences models, methods, and procedures. The major areas of study are linear programming (LP), simulation modelling, and forecasting.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO1	Explain the management science approach to identification, analysis, decision, and implementation of problem solving.
CLO2	Understand the subject of management science, and a variety of management science models, methods and computational procedures that are helpful in solving management problems in finance, P.O.M., accounting, M.I.S., marketing, operational research, actuarial science, etc.
CLO3	Develop an appreciation of the management science approach to problem formulation and solution, so important in the modern business and industrial world with the increased use of computers.

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	3	2	2
CLO-2	3	3	2	3	1
CLO-3	3	3	3	2	3
Average	3	3	3	2.5	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction Definition management science, Functions of management, Role of management science, Management science process, Benefits and impact of	4.5	Lecture & Class Participation	Test	1

management science, Challenges and limitation of management science.				
2. Modeling and Models Classification of models, Constructing a model, Characteristics of models, Deriving solutions from a model, Model building in decision making, Practical applications of models.	4.5	Lecture & Class Participation	Assignment & Test	2
3. Managerial Decision Theory Decision-making and its importance in management science, Tactical decisions, Strategic decisions, Statistical decision theory, Opportunity loss, Payoffs, Regrets, Hypothetical payoff table, Opportunity loss table, Decision making under certainty, uncertainty and risk.	6	Lecture & Group Discussion	Assignment & Test	3
4. Decision in competitive situation-Game Theory Game theory and its importance, Relation between competition and game, Players in a game, Payoff matrix, Pure strategies, Pure and Mixed strategies, Saddle point, Two person zero sum game, Maximax-minimax principle, Dominance principle, Probability method of solving game theory.	3	Lecture	Test & Quiz	3
5. Linear Programming Definition linear programming, Requirements of linear programming, Assumptions in linear programming, Objective function, Characteristics of LPP, Steps in formulation of LPP, Merits and demits of LP model, Graphic solution LP model,	4.5	Lecture	Test & Quiz	3

Simplex method of LP model, LP model special cases.				
6. Transportation and Assignment Model Assumption, Uses, Feasible solution, Optimal solution, Steps for solving transportation model, Methods for developing initial feasible solution, Methods for developing optimal feasible solution, Assumption of assignment model, Solution methods for assignment transportation problem, Hungarian Assignment method, Unbalanced assignment model, Maximization assignment problem.	6	Lecture	Assignment & Test	4
7. Queuing (Waiting Line) Theory Objective and role of queuing theory, Definition of terms, Queuing process, Characteristics of Queuing system, Classes of Queuing system, formulas, Other queuing models.	4.5	Lecture	Test	4
8. Network Analysis Network techniques, Program Evaluation and Review Technique (PERT), Critical Path Method (CPM), Evolution of PERT and CPM, Objectives and uses of network techniques, Network diagram, CPM analysis, Steps in CPM, Limitations of CPM, PERT analysis, Steps in PERT, Difference between PERT & CPM, Project cost and time analysis.	6	Lecture and Group Discussion	Assignment & Test	4
9. Simulation Model Requirements of simulation, Steps of simulation, Phases of simulation, Methods of simulation, Monte Carlo	6	Lecture	Test	4

simulation method, System simulation method.				
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Textbook(s)

Efraim Turban and Jack R. Merideth, *Fundamentals of Management Science*, McGraw-Hill.

Reference(s)

1. Anderson, Sweeney and Williams. *An Introduction to Management Science*. South-Western.
2. Lee J. Krajewski and Larry P Ritzman, *Operations Management*, Addison-Wesley.

Assessment and Evaluation

Bloom's Category	Assignments/ Participation Viva	Quizzes	Mid-term (Test)	Final-term (Test)	Total
Remember	0	05	05	05	15
Understand	05	05	05	05	20
Apply	05	0	05	10	20
Analyze	10	0	05	05	20
Evaluate	10	0	0	05	15
Create	0	0	0	10	10
Total	30	10	20	40	100

Grading System: As per UGC recommendation

SCM-0413-460: ENTERPRISE RESOURCE PLANNING

Credit Hours: 3

Rationale of the Course

This course will provide idea about the basic use of Enterprise software, and its role in integrating business functions, enable the students to analyze the strategic options for ERP identification and adoption and to design the ERP implementation strategies. This course also enables the students to create reengineered business processes for successful ERP implementation.

Course Description

The aim of this course is to teach core business modules of the ERP Software, including navigation and basic functionality of each module including Supply chain management, marketing and customer relationship management, accounting, and human resources.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO1	Make basic use of Enterprise software, and its role in integrating business functions
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CLO2	Analyze the strategic options for ERP identification and adoption.
CLO3	Design the ERP implementation strategies.
CLO4	Create reengineered business processes for successful ERP implementation.

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	2	2	2
CLO-2	2	2	3	3	3
CLO-3	2	2	3	3	3
CLO-4	2	2	2	3	3
Average	2.5	2.5	2.5	3	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs:

Topic	Hrs	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Enterprise: An Overview Business functions and business processes, Importance of information: characteristics of information, Types of information, Information system: components of an information system, Different types of information systems, Management information system.	4	Demonstration and practice	Test and Quiz	1
2. Enterprise Resource Planning: Business modelling; Integrated data model Introduction to ERP: defining ERP, Origin and need for an ERP system, Benefits of an ERP system, Reasons for the growth of ERP market, Reasons for the failure of ERP implementation: roadmap for successful ERP implementation.	6	Demonstration and practice	Assignment & Test	2
3. ERP and Related Technologies Business process re-engineering, Management information systems, Decision support systems, Executive information	4	Demonstration and practice	Test & Assignment	2

systems, advantages of EIS, Disadvantages of EIS, Data warehousing, Data mining, On-line analytical processing, Product life cycle management, Supply chain management, ERP security.				
4. ERP Implementation Life Cycle ERP tools and software, ERP selection methods and criteria, ERP selection process, ERP vendor selection, ERP implementation lifecycle, Pros and cons of ERP implementation, Factors for the success of an ERP implementation.	3	Demonstration and practice	Test & Quiz	2
5. ERP Modules Structure Finance, Sales and distribution, Manufacturing and production planning- material and capacity planning, Shop floor control, Quality management, JIT/repetitive manufacturing, Cost management, Engineering data management, Engineering change control, Configuration management, Serialisation/lot control, Tooling, Human resource, Plant maintenance, Preventive maintenance control, Equipment tracking, Component tracking, Plant maintenance calibration tracking, Plant maintenance warranty claims tracking, Quality management, functions of quality management, CAQ and CIQ, Materials management- pre-purchasing, Purchasing, Vendor evaluation, Inventory management and invoice verification and material inspection.	3	Demonstration and practice	Test & Quiz	2

6. ERP: A Manufacturing Perspective Role of enterprise resource planning (ERP) in manufacturing, Computer aided design/computer aided manufacturing (CAD/CAM), Materials requirement planning (MRP)-master production schedule (MPS), Bill of material (BOM), Inventory records, Closed loop MRP, Manufacturing resource planning (MRP-II), Manufacturing and production planning module of an ERP system, Distribution requirements planning (DRP), Just-in-time (JIT) & kanban, Benefits of JIT, Potential pitfalls of JIT, Product data management (PDM)- data management, Process management, Functions of PDM, Benefits of PDM, Manufacturing operations- make-to-order (MTO) and make-to-stock (MTS), Assemble-to-order (ATO), Engineer-to-order (ETO), Configure-to-order (CTO).	3	Demonstration and practice	Test & Assignment	2,3
7. ERP: A Purchasing Perspective Role of ERP in purchasing, Purchase module: features of purchase module, Benefits of purchase module, ERP purchase system.	3	Demonstration and practice	Test & Quiz	2,3
8. ERP: Sales and Distribution Perspective Role of ERP in sales and distribution, Sub-modules of the sales and distribution module: master data management, Order management, Warehouse management, Shipping and	3	Demonstration and practice	Test and Assignment	2,3

transportation, Billing and sales support, Foreign trade, Integration of sales and distribution module with other modules.				
9. ERP: An Inventory Management Perspective Role of ERP in inventory management: features of ERP inventory management system, Benefits of ERP inventory management system, Limitations of ERP inventory management system, Importance of web ERP in inventory management, ERP inventory management module, Sub-modules of the ERP inventory management module, Installation of ERP inventory management system, Failure of ERP inventory installation.	3	Demonstration and practice	Test and Assignment	2,3
10.ERP: A CRM Perspective Role of ERP in CRM, Concept of CRM: objectives of CRM, Benefits of CRM, Components of crm, Types of CRM: operational CRM, Analytical CRM, Sales intelligence CRM, Collaborative CRM, Sub-modules of CRM: marketing module, Service module, Sales module.	3	Demonstration and practice	Test and Assignment	2,3
11.ERP: A HR Perspective Role of ERP in human resource management: workflow of ERP human resource management system, Advantages of ERP human resource management system, Human resource management module: functions of human resource management module, Features of human resource management module, Benefits of human resource management module, Common	3	Demonstration and practice	Test and Assignment	2,3

sub-modules of human resource management module: personnel management, Organisational management, Payroll management, Time management, Personnel development.				
12.ERP: A Finance Perspective Role of ERP in finance, Accounting and finance processes: cash management, Capital budgeting, Features of ERP financial module, Benefits of ERP financial module, Sage ACCPAC ERP: a financial ERP tool.	3	Demonstration and practice	Test and Assignment	2,3
13.ERP: Vendors, Consultants and Employees Vendors, Role of the vendor, Consultants: types of consultants, Role of a consultant, Employees, Role of employees, Resistance by employees, Dealing with employee resistance, Role of top management, Role of implementation partner, Different ERP vendors, ERP vendors, SAP-AG: products and technology r/3 overview, Sap advantage, Baan company , Oracle corporation: products and technology, Oracle application, Vertical solutions, Microsoft corporation, RAMCO systems, Systems software associates Inc. (SSA), QAD.	3	Demonstration and practice	Test and Assignment	4
14.Future Directions in ERP New trends in ERP, ERP to ERP II-implementation of organisation-wide ERP, Development of new markets and channels, Latest ERP implementation methodologies, ERP and e-business, Market snapshot, The SOA factor.	1	Demonstration and practice	Test and Assignment	4

Textbook(s)

1. Motiwalla and Thompson, Enterprise Systems for Management, Pearson.
2. Any ERP software

Reference(s)

Magal and Word, Essentials of Business Processes and Information Systems, Wiley.

Assessment Procedure and Evaluation

Bloom's Category	Assignments (20)	Quizzes (15)	Lab(15)	Mid-term (Test) (20)	Final-term (Test) (30)	Total (100)
Remember		05		04	05	14
Understand	04	05	05	04	05	23
Apply	04	05	05	04	05	23
Analyze	04		05	04	05	18
Evaluate	04			04	05	13
Create	04				05	09

Grading System: As per UGC recommendation

SCM-0413-451: Quality Management

Credit Hours: 3

Course Rationale

Quality management is not just an idea. It has its own functional standard approaches and methods. This course will expose students to the ideas and challenges of Total Quality Management as quality management has an imperative for all organizations, including non-profits and government.

Course Description

The purpose of this course is to expose students to the ideas and challenges of Total Quality Management. This course will equip them with necessary tools to resolve these issues. This course is also aimed at teaching students the techniques used by best-practice employer to improve their TQM approach.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO-1	Develop an understanding of total quality management principles, frameworks, tools and techniques.
CLO-2	Get an idea of TQM approach, history, quality concern.
CLO-3	Get overview of tools and frameworks.



CLO-4	Appreciate the applicability of TQM principles in manufacturing and service sector, and in government and non-profit organizations.
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Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	3	2	1
CLO-2	3	3	2	3	1
CLO-3	3	3	3	3	3
CLO-4	2	2	2	2	3
Average	3	3	2.5	2.5	2

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction Overview of TQM: what is TQM, TQM Principles, Other related terms for Quality and Continuous Improvement, Origin and context of TQM, TQM approach Vs. traditional approach of management of quality, Overview of TQM tools and techniques, reasons for TQM failures and problems.	6	Lecture	Test	1
2. Historical origin and theoretical basis of Quality paradigm Shewart SPC, Deming 14 points, Juran's trilogy, Crosby's 4 absolutes, etc.	6	Lecture & Class Participation	Assignment & Test	2
3. Planning for quality Flowcharting, Detailed flow process charts and flow diagrams,	12	Lecture & Group Discussion	Assignment & Test	3
4. Planning for just-in-time (JIT) management System design and contents, System documentation, Implementation and assessment.	6	Lecture	Test & Quiz	3
5. Measurement of Quality Costs of Quality, Tools and Techniques for Quality	3	Lecture	Test & Quiz	3

Improvement, Statistical Process Control.				
6. Quality teamwork Type of total quality teamwork, Effective teamwork, Empowerment and Motivation.	3	Lecture	Test & Quiz	4
7. Quality leadership Perspective in leadership, The role of a quality leader, Quality leadership in action, TQ and leadership theory.	3	Lecture, Problem solving	Test and Quiz	4
8. TQM in Service organization Manufacturing vs. service, commonalities of TQM principles and techniques.	3	Lecture and Group Discussion	Test	4
9. TQM in Government and Nonprofits Wide range of applicability of TQM philosophy, principles, tools, case studies.	3	Lecture and Group Discussion	Test	4

Textbook(s)

Dale Besterfield, Carol Besterfield, Mary Besterfield-Sacre, Hemant Urdhwareshe, Rashmi Urdhwareshe, *Corporate Total Quality Management*, Pearson India

Reference(s)

D.R. Kiran, *Total Quality Management: Key Concepts and Case*, Butterworth-Heinemann.

Assessment and Evaluation

Bloom's Category	Assignments/ Participation Viva	Quizzes	Mid-term (Test)	Final-term (Test)	Total
Remember	0	05	05	05	15
Understand	0	05	05	05	20
Apply	05	0	05	10	20
Analyze	10	0	05	05	15
Evaluate	10	0	0	05	15
Create	05	0	0	10	15
Total	30	10	20	40	100

Grading System: As per UGC recommendation

SCM -0311-303: ECONOMETRICS

Credit Hours: 03

Course Rationale:



The methods taught in this introductory course can also be employed in the business disciplines of accounting, finance, marketing and management and in many social science disciplines. By taking this introduction to econometrics students will gain an overview of what econometrics is about, and develop some intuition about how things work. The emphasis of this course will be on understanding the tools of econometrics and applying them in practice.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO-1	Understand foundational econometric theory and how it can be applied using real-world data
CLO-2	Analyze how statistical tools including regression analysis can be applied using cross-sectional data
CLO-3	Develop an intuitive understanding of econometrics that allows you to utilize the theory and tools effectively and creatively in a variety of academic settings

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	3	1	2
CLO-2	3	3	3	2	2
CLO-3	3	3	3	2	2
Average	3	3	3	1.67	2

(Level of correlation: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
The nature of econometrics and economic Data: What is Econometrics? Steps in Empirical Economic Analysis, the Structure of Economic data, Cross-Sectional Data, Time Series Data, Pooled Cross Sections, Panel or Longitudinal Data	4.5	Lecture	Quiz	1
The simple regression Model: Definition of the Simple Regression, deriving the ordinary Least Squares Estimates, Properties of OLS on Any Sample of data, Fitted Values and Residuals, Goodness-of-Fit, OLS Statistics, Expected Values and Variances of the OLS Estimators, Unbiasedness of OLS, Variances of the OLS Estimators, Estimating the Error Variance	6	Lecture	Quiz	1
Multiple regression Analysis: The Model with Two Independent Variables, The Model with k	6	Lecture	Test & Quiz	2, 3

Independent Variables, Obtaining the OLS Estimates, Interpreting the OLS Regression Equation, Changing More Than One Independent Variable Simultaneously, OLS Fitted Values and Residuals, Multicollinearity, Variances in Misspecified Models Estimating, Efficiency of OLS: the Gauss-Markov Theorem				
Multiple regression: Sampling distributions of the OLS Estimators, testing hypotheses about a Single Population Parameter: the t test, Testing against One-Sided Alternatives, Two-Sided Alternatives, Testing Other Hypotheses about b_j , Computing p-Values for t Tests, Hypothesis Testing, Confidence intervals, testing hypotheses about a Single Linear, Combination of the Parameters, testing Multiple Linear Restrictions: the F test, Relationship between F and t Statistics, The R-Squared Form of the F Statistic, Computing p-Values for F Tests, The F Statistic for Overall Significance of a Regression, Testing General Linear Restrictions, Reporting Regression Results	7.5	Lecture & demonstration	Assignment	2,3
Analysis with Qualitative information: Binary (or Dummy) Variables: Describing Qualitative information, A Single dummy independent Variable, Interpreting Coefficients on Dummy, Explanatory Variables When the Dependent Variable Is $\log(y)$, Using dummy Variables for Multiple Categories, Incorporating Ordinal Information by Using Dummy Variables, interactions involving dummy Variables, Interactions among Dummy Variables, Allowing for Different Slopes, Testing for Differences in Regression Functions across Groups, A Binary Dependent	6	Lecture	Quiz	2,3

Variable: the Linear Probability Model				
Heteroskedasticity: Consequences of heteroskedasticity for OLS, heteroskedasticity-Robust inference after Estimation, Computing Heteroskedasticity-Robust LM Tests, testing for heteroskedasticity, The White Test for Heteroskedasticity, Weighted Least Squares Estimation	6	Lecture	Test	2,3
More on specification and Data issues: Functional Form Misspecification, RESET as a General Test for Functional Form Misspecification, Tests against Nonnested Alternatives, Using Proxy Variables for Unobserved Explanatory Variables, Using Lagged Dependent Variables as Proxy Variables, Models with Random Slopes, Properties of OLS under Measurement, Measurement Error in the Dependent Variable, Measurement Error in an Explanatory, Missing data, nonrandom Samples, and outlying observations	9	Lecture	Test	2,3

Textbook(s)

Introductory Econometrics-A modern approach by J woolridge

Reference(s)

Basic Econometrics by [Damodar N. Gujarati](#), McGraw-Hill,

Assessment and Evaluation

Bloom's Category	Attendance and class performance (10)	Assignments (20)	Quizzes (20)	Mid-term (25)	Final-term (25)	Total
Remember	03	0	05	04	04	16
Understand	03	0	05	04	04	16
Apply	02	04	0	05	05	16
Analyze		03	05	05	04	17
Evaluate	02	03	05	05	05	20
Create		05	0	02	03	10

Grading System: As per UGC recommendation

SCM-0413-400L: SOFTWARE APPLICATIONS IN SUPPLY CHAIN MANAGEMENT

Credit Hours: 2



Course Rationale

This course introduces students to essential software applications used in the field of Supply Chain Management. As the industry increasingly relies on digital tools for efficiency and strategic decision-making, familiarity with these applications is vital. This course enables students to develop practical skills in software tools for managing supply chain operations, inventory, procurement, and logistics.

Course Description

This course provides an introduction to essential software applications widely used in Supply Chain Management. Students will gain hands-on experience with tools for inventory management, data analytics, transportation, and warehouse management. Emphasizing practical skills, the course equips students to apply digital solutions for efficient operations, data-driven decision-making, and integrated supply chain management. Designed for future supply chain professionals, this course prepares students to navigate the technological demands of modern logistics.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO1	Utilize inventory management software to maintain stock levels and optimize order processing.
CLO2	Understand and explain the role of software applications in supply chain operations and logistics management.
CLO3	Apply data analytics software to support decision-making and operational improvements.
CLO4	Demonstrate practical skills in transportation and warehouse management software for efficient logistics.

Mapping of CLOs to PLOs

PLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	1	1	1	2
CLO2	3	3	2	1	2
CLO3	2	3	3	2	3
CLO4	3	3	3	3	2
Average	2.75	2.5	2.25	1.75	2.25

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
1. Introduction to Supply Chain Software Overview of popular supply chain software; Role of software in logistics and supply chain management	4	Lecture & Class Participation	Quiz & Discussion	1



2. Inventory Management Software Hands-on with software like SAP ERP and Inventory Management Systems (IMS)	6	Demonstration & Practical Exercises	Assignment & Practical Test	2
3. Data Analytics for Supply Chains Using Excel and basic data analytics software for supply chain insights	8	Lab Sessions & Problem-Solving	Quiz & Data Analysis Project	3
4. Transportation and Warehouse Management Software Overview and applications of TMS and WMS software, practical use cases	6	Demonstration & Group Exercises	Assignment & Practical Test	4
5. Integration of Software Tools in SCM Integrating various applications to improve end-to-end supply chain management	6	Group Project & Case Study	Final Presentation	1, 2, 3, 4

Textbooks and References

1. Jacobs, F. R., and Chase, R. B. *Operations and Supply Chain Management*. McGraw-Hill.
2. Hugos, M. *Essentials of Supply Chain Management*. Wiley.
3. Turban, E., et al. *Information Technology for Management: Advancing Sustainable, Profitable Business Growth*. Wiley.

Recommended Software

1. **SAP ERP**: For inventory and procurement simulation.
2. **Excel and Tableau**: For data analytics.
3. **TMS and WMS**: Transportation and warehouse management tools for logistics applications.

Assessment and Evaluation

Bloom's Category	Quizzes	Assignments	Practical Test	Final Presentation	Total
Remember	10				10
Understand	10				10
Apply		20	10		30
Analyze			10		10
Evaluate		10		10	20
Create				20	20
Total	20	30	20	30	100



Grading System: As per UGC recommendation



LFE, Internship/Research Project

LFE-0111-201: Live-in-Field Experience

Credit Hours: 3

Rationale of the Course:

This course equips students with hands-on experience in urban and rural market systems through participatory rural appraisal (PRA) methods, fostering analytical, research, and teamwork skills. It emphasizes ethical fieldwork, professional communication, and problem-solving to address real-world socioeconomic challenges.

Course Objective

The LFE program is designed to provide students with practical exposure to rural and urban industries, focusing on socio-economic impacts, technological evolution, and sustainable development. The program emphasizes discipline, adaptability, and active participation, ensuring students emerge as responsible and skilled professionals.

Course Learning Outcomes (CLO)

CLO1	Provide students with practical exposure to urban and rural socioeconomic dynamics.
CLO2	Equip students with skills to conduct participatory rural appraisals (PRA).
CLO3	Develop an understanding of rural markets, production cycles, and quality of life indicators.
CLO4	Enhance students' report writing, presentation, and analytical skills.

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	-	-	-	3
CLO-2	3	3	-	-	2
CLO-3	-	-	3	3	-
CLO-4	-	-	3	-	-
Average	3	3	3	3	2.5

(Level of integration: 3-High, 2-Medium, 1-Low)

Course Plan: Teaching-Learning & Assessment Strategy mapped with CLOs

Part	Topic	Hours	Teaching-Learning Strategy	Assessment Strategy	Corresponding CLOs
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<u>Part 1:</u> <u>Introduction</u> <u>to LFE</u>	Week 1: Orientation to the Program Overview of the LFE program structure-Importance of experiential learning in social sciences-Guidelines on teamwork, logistics, and deliverables-Group formation	3	Lectures- Group Discussion	Scores for Compliance and Discipline	1, 4
	Week 2: Class on Industry Visit I Sustainability- Triple Bottom Line- SDGs-IR 4.0	1.5	Lecture and Group Task	Report Writing and Compliance of Rules	1, 4
	Week 3: Class on Industry Visit II Porter's 5 Forces Model-Supply Chain-Core Competency and Competitive Advantage-Generic Strategies-Growth Strategies-BCG Matrix	1.5	Lecture and Group Task	Report Writing and Compliance of Rules	1, 4
Part 2: Urban Industry Visits	Week 4: Industry Visit I Field exposure to urban businesses or industries-Group data collection activities-Comparative analysis of industries	3	Industry and Real-life Demonstration	Report Writing and Compliance of Rules	1, 4

	Week 5: Industry Visit II Field exposure to urban businesses or industries-Group data collection activities-Comparative analysis of industries	3	Industry and Real-life Demonstration	Report Writing and Compliance of Rules	1, 4
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Part 3: Fieldwork in Rural Settings	<p>Day 1 (Travel & Orientation): Travel to the venue-Venue orientation-PRA techniques and research tools-Briefing on LFE elements, objectives, and rules-Fieldwork logistics planning and Q&A session.</p> <p>Days 2-6: PRA activities:</p> <ul style="list-style-type: none"> - Transect walk and village mapping- - Rural Market Study: Explore haats and bazaars, product flow, and marketing challenges. - Economy and Quality of Life: Study sanitation, health, and environmental quality indicators. - Rural Industry Visit I - Rural Industry Visit II <p>Day 7 (Final Preparation): Cross-check data; prepare for presentations.</p> <p>Day 8 (Presentation): Final group</p>	33	Rural Life Demonstration and Data Collection	Presentation, Report Writing, and Compliance of Rules	1, 2, 3, 4
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	presentation and concluding dinner.				
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Textbook(s)

- LFE Booklet prepared by Chittagong Independent University (CIU).

Assessment and Evaluation

Bloom's Category	Urban Industry Report	Fieldwork Participation	Rural Field Report	Final Presentation	Discipline and Compliance of Rules	Total
Remember	-	-	-	-	5	5
Understand	-	5	5	5	5	20
Apply	-	5	5	5	-	15
Analyze	-	5	5	5	-	15
Evaluate	-	5	5	5	-	15
Create	10	-	10	10	-	30
Total	10	20	30	30	10	100

Grading System: As per UGC recommendation

BBA -0111-496: INTERNSHIP

Credit Hours: 6

Rationale of the Course:

Industrialization and globalization are creating job opportunities. But due to a lack of industry-oriented education, graduates are lagging behind, and these jobs are filled with people from abroad, as a result of which a huge amount of foreign currency leaves the country each year, which is contributing to the chain of unemployment in Bangladesh.

This course will try to bridge this gap between theoretical knowledge and industry practices and introduce the students to more on the ground realities. This course allows students to gain direct experience, enhance their employability and develop network with professionals.

Course Description:

This course is designed to provide the students an opportunity to get acquainted with the workplace environment. It also gives the students a chance to find out how to apply the classroom knowledge in solving practical problems.

Course Learning Outcomes (CLO):

After completing the course, the student should be able to:



CLO1	Know how to apply the classroom knowledge in solving practical problems.
CLO2	Understand workplace environment;
CLO3	Write a report.

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	2	2	2
CLO-2	3	3	2	2	3
CLO-3	3	3	3	2	3
Average	3	3	2.5	2	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Procedure of the program

1. Students will submit a report on completion of their internship program and present it before the board.
2. There will be a starting date of internship program, report processing period and submission date of Internship report- all of which will be decided and declared by the business school. However tentative course of actions may be as follows:
 - a) Forwarding Letter (Issued by the business school): After completion of 126 credit hours.
 - b) Duration of Internship: Three Months (90 hours).
 - c) Internship Start: Within second week of each semester.
 - d) Report Preparation: One week before final submission, a draft copy must be submitted to the supervisor for proof reading and correction.
 - e) Report Submission and Presentation: During semester final examination.
3. A permission letter from the organization is needed to start Internship. A copy of permission letter must be submitted to the business school by the student or the organization.
4. A list of supervisors will be published at the beginning of the semester.
5. Students must keep in touch with their supervisor by their own on a regular basis. Supervisor will not be responsible to communicate with the student regarding internship.
6. Student evaluation shall be based on Organization's Assessment, Internship Report, Internship Presentation, Attendance in Workshop and regular contact with supervisor and Viva-voce.

Assessment Procedure and Evaluation:

Bloom's Category	Assignments (100)	Quizzes (-)	Mid-term (Test) (-)	Final term (Test) (-)	Total (100)
Remember	0				0
Understand	20				20
Apply	20				20
Analyze	30				30
Evaluate	20				20
Create	10				10

Grading System: As per UGC recommendation



BBA -0111-497: RESEARCH PROJECT**Credit Hours: 6****Rationale of the Course**

This course is designed to prepare the students to conduct independent research.

Course Description

This course is designed to provide the students an opportunity to get acquainted with the corporate research.

Course Learning Outcomes (CLO)

After completing the course, the student should be able to:

CLO1	Know how to apply the classroom knowledge of research methods in doing corporate research.
CLO2	Generate information through research;
CLO3	Write a research report.

Mapping of CLOs to PLOs

PLO/CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5
CLO-1	3	3	2	2	2
CLO-2	3	3	2	2	3
CLO-3	3	3	3	2	3
Average	3	3	2.5	2	3

(Level of integration: 3-High, 2-Medium, 1-Low)

Procedure of the research program

Using one or a variety of methods, students will collect original data and contribute to problem solving in the field of business. The steps of the research project should be as follows:

1. The research topic should be selected in consultation with supervisor(s);
2. The precise research question(s) to be addressed;
3. Hypothesis may be developed and tested;
4. Appropriate methodology to be used in conducting the research;
5. Data are to be collected from genuine sources;
6. Proper analysis and interpretation are to be made to draw the conclusions;
7. Implications of the research findings may be mentioned.

Students are required to present their research outcomes in front of a designated panel of judges.

Assessment Procedure and Evaluation:

Bloom's Category	Assignments (100)	Quizzes (-)	Mid-term (Test) (-)	Final term (Test) (-)	Total (100)
Remember	0				0
Understand	20				20
Apply	20				20



Analyze	30				30
Evaluate	20				20
Create	10				10

Grading System: As per UGC recommendation

Part-D

Grading Policy

Grading Scale & Grades:

Chittagong Independent University has been following the UGC prescribed grading system as per the UGC Circular NO/ Sha/464/04/2690-100, dated:13.6.2006 which is furnished below:

Numerical Grade	Letter Grade		Grade Point
80% and above	A+	(A Plus)	4.00
75% to less than 80%	A	(A regular)	3.75
70% to less than 75%	A-	(A minus)	3.50
65% to less than 70%	B+	(B Plus)	3.25
60% to less than 65%	B	(B regular)	3.00
55% to less than 60%	B-	(B minus)	2.75
50% to less than 55%	C+	(C Plus)	2.50
45% to less than 50%	C	(C regular)	2.25
40% to less than 45%	D	(D regular)	2.00
Less than 40%	F	Fail	0.00

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) and their calculation procedures:

The Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated by Total Grade points divided by Total Credits for GPA.

Course Withdrawal Procedure:

A student may withdraw from a course by the deadline with the consent of the instructor and the Academic Advisor. Withdrawal from only one course in a semester is allowed but the students should provide valid reasons along with documents while applying for the withdrawal. However, withdrawal from the whole semester may be permitted on a case-by-case basis provided the student has valid reasons for withdrawal from the semester along with valid documents. A grade of 'W' will be recorded on the transcript. Withdrawing from a course does not discharge a student from financial liability or responsibility for the course.

Course Add/Drop Procedure:



A student may add or drop a course by completion of an official Add/Drop form prior to the conclusion of the drop/add period. The signature of the academic advisor will be required for any drop/add/change of course. Students may add or drop a course within the stipulated period.

Incomplete (I) Grade Policy:

1. An 'I' grade is given to a student who has fulfilled 75% of a course but was unable to complete it due to illness or for any other acceptable reasons. The student should fulfill the remaining 25% before the end of the following semester in consultation with the course instructor.
2. The student is not required to register for the incomplete course in the next semester, however, assigning an incomplete or 'I' grades should be strongly discouraged. It will only be considered for the students who have a valid reason acceptable to the course instructor and the Dean of School.
3. In case if the instructor who assigned an incomplete grade to a student is not available for any valid reason to change the 'I' grade, the Dean of the School shall do it.
4. An 'I' grade must be replaced in the following term/semester when it was assigned. If a student failed to complete the course within the following term/semester, the grade may convert to "F" following the grade change procedure.
5. In a situation where the student is unable to complete the course due to unanticipated illness or family emergency and has not attended at least 75% of the classes held, he/she will be asked to withdraw from that course and retake it.
6. A student whose internship/thesis or seminar paper/senior project is in progress, he/she will have the opportunity to obtain a 'Continuation grade' for the course under specific conditions and guidelines. The symbol of 'Continuation grade', will be "CN". 'CN' grade can be given for maximum three semesters only.

Retake/Grade Improvement Policy:

1. Retake of a course shall be allowed only to the course with B- (minus) grades and below.
2. After the retake of a course the higher grade earned by the student will be considered towards counting of the CGPA.
3. Students will be allowed to retake any course twice before graduation.
4. A course must be re-taken in immediate successive enrolled semester if the grade is 'F'.
5. A course must be re-taken in immediate successive enrolled semester if the prerequisite grade is not achieved.

