

Year-1 Term-1

Sl.#	Course Code	Course Title	Credit	Credit Hours
1	CSTE 1101	Computer Fundamental and Applications	2	2
2	CSTE 1103	Structured Programming Language	3	3
3	CSTE 1104	Structured Programming Language Lab	1.5	3
4	CSTE 1105	Electric Circuit Analysis	3	3
5	CSTE 1106	Electric Circuit Analysis Lab	1	2
6	PHYS 1101	Electromagnetism, Oscillations, Heat and Optics	3	3
7	PHYS 1102	Physics Lab	1	2
8	MATH 1101	Differential and Integral Calculus	2	2
9	ENG 1101	English Language	2	2
10	BAN 1101	বাংলা ভাষা	3	3
		Total	21.5	25

COURSE TITLE: COMPUTER FUNDAMENTAL AND APPLICATIONS

Course Code: CSTE 1101	Attendance: 10
Credit Hours: 02	Viva: 20
Exam Hours: 03	SEE Marks: 70

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Eclipse IDE.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)											
	CLO1												
	CLO2												
	CLO3												
	CLO4												
	CLO5												
Mapping of CLO to PLO (Program Learning Outcome)	PLO1	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	CLO1												
	CLO2												
	CLO3												
	CLO4												
	CLO5												

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
		CLO1	Lecture and discussion with detailed information about the lab course, including the objectives, course outcomes, lab examinations and evaluation method.	Answer basic questions about different types of instruments.
		CLO2, CLO3, CLO5	Through lecture, Laboratory, and out-of-class assignments.	Neatness, organization, completeness and individually written lab reports are due at the beginning of the lab period. Respected Teacher will be evaluated in lab period.
		CLO3, CLO4, CLO5	Through lecture, Laboratory, and out-of-class assignments.	
		CLO3, CLO4	Through lecture, laboratory, and out-of-class assignments.	
		CLO3, CLO4	Through lecture, laboratory, and out-of-class assignments.	

13

Final Lab Exam (Job, Quiz and Viva)**ASSESSMENT PATTERN****Attendance- 05****Viva- 20****SEE-Semester End Examination (70 marks)**

Bloom's Category	Test
Remember	
Understand	20
Apply	20
Analyze	30
Evaluate	
Create	

Course Code: CSTE 1103
Credit Hours: 03
Exam Hours: 04

Attendance: 05
CIE Marks: 25
SEE Marks: 70

Course Objectives:

- To introduce a general knowledge of how a computer works.
- Explain the concepts of structured programming.
- Focus on programming concepts to solve computing problems.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, a Question bank, Previous questions.

Course Learning Outcomes (CLO)

CLOs	Description (At the end of the course, students will be able to)										
CLO1	understand the different components of a computer and basic concepts of structured programming in the C language.										
CLO2	apply programming concepts in solving different mathematical problems.										
CLO3	design and implement programs involving decision structures, loops, arrays, structure, union, and graphics.										
CLO4	analyze a problem to create relevant and recurrence equations and solve the equations.										

Mapping of CLO to PLO (Program Learning Outcome)

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CLO1	√											
CLO2	√											
CLO3		√										
CLO4		√										

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	Introduction: History and development of Computers, CPU types, Storage Media, RAM, ROM, System Software, Application Software.	CLO1	Lecture and discuss detailed information about the course, including the objectives, course outcomes, examinations, physical environment, and methodology with the students. Demonstrate problem-solving techniques.	Answer basic questions, quizzes, Homework, exams.
2	Computer programming, programming languages, Compilation vs. Interpretation, Problem-solving techniques, Data Flow Diagram. Variable declarations including common data types (e.g., int, float, char, etc.); Constants and its use;	CLO1	Lecture and discuss detailed information about the course, including the objectives, course outcomes, examinations, physical environment, and methodology with the students. Demonstrate problem-solving techniques.	Answer basic questions, quizzes, Homework, exams.

3	Basic program structure: I/O operations including formatted I/O Operators: Assignment, arithmetic, relational, logical, and bitwise expressions, including precedence and Associativity. Example problems using variables and expressions	CLO1	Lecture and discussion with the basic data type, the concept of variable and showing their memory representation graphically. Demonstrate various operators and build expression using them. Students will be asked to translate arithmetic and algebraic statement using the programming language. Example of using variables and constants and expressions.	Answer basic questions, quizzes, Homework, exams.
4	Control Structures & Statements: Boolean expressions Conditional statements (e.g., if/else, switch case). Nested conditional Structures Standard/ structures programming practices for decision structures. Continue and Break statements Example problems using control structures	CLO1, CLO2, CLO3	Lecture and discussion with problems, which corresponds to the program flow and logic control. Demonstrate various control structures with flow charts and show how to solve the decision-making problem using them. Students will be asked to write and analyze a program that involved decision-making.	Class Test 1 (topics of the week's 1-4)
5	Loop Structures: While, For, Do-While Loops, Nesting of loops, Switch, Continue, Break statements, Jumps in loops, Go To statements.	CLO1, CLO2, CLO3, CLO4	Lecture and discussion with problems that require iterations. Demonstrate repetition essentials, counter-controlled repetition, for repetition statement, break, and continue.	Answer basic questions, quizzes, Homework, exams.
6	Complex data type (Array): Array syntax, rules and variable declaration, One-dimensional, Multidimensional arrays, Strings as arrays; initializing arrays Processing array using Loops. Example problems using arrays and records	CLO1, CLO2, CLO3	Lecture and discussion with tabular data, sorting, and searching arrays. Multidimensional array Examples using the array.	Answer basic questions, quizzes, Homework, exams.
7	Pointer: Basic concept of pointers Array and Pointer Processing array using Pointer, 2D array and Pointer, Dynamic memory allocation using malloc Function	CLO1, CLO2, CLO3	Lecture and discussion on Basics of pointers. Array-pointer referencing duality. Strings. Dynamic memory management.	Answer basic questions, quizzes, Homework, exams.

	Sample problems using Pointer		Discuss sample problems using Pointer and dynamic memory management.	
8	Functions: Different parts of a function. Argument passing and returning results. Passing array and Pointer to function. Call by value and call by Reference. Swapping, Recursion, Variables in scope & Command line arguments. Sample problems using functions	CLO1, CLO2, CLO4	Lecture and discussion on function definition and function call. Function prototypes and header files. Demonstrate the mechanism of recursion and swapping. Example function writing for programming problems.	Class Test 2 (topics of the week's 5-8)
9	Structure: Basic concept of structure, structure array, pointers for structure, passing structure to function, returning structure from the function Self-referential structure Example problems using structure	CLO1, CLO3,	Lecture and discussion on the basics of structure, structure array, and pointers for structure Example problem using the structure	Answer basic questions, quizzes, Homework, exams.
10	Union & Enumerated Data type: Basic concept of Union, Passing Union to function, returning Union from function, Basic concept of Enumerated data type, Example problems using Union & Enumerated data types	CLO1, CLO3	Lecture and discussion on the basics of Union and enum data type. Example problem using Union and enum data type	Answer basic questions, quizzes, Homework, exams.
11	File management: (This will be covered in the lab early due to project activity) Create, read, write and update files, Sequential files, unformatted files, Text & Binary files, Case problems using file IO	CLO1, CLO3	Lecture and discussion on file manipulation (e.g., CRUD on File)	Answer basic questions, quizzes, Homework, exams.
12	Computer Graphics: Graphics programming: lines, Drawing & Filling images, patterns, drawing and filling shapes, Palettes & Colors & Text in graphics. Example problems using graphics	CLO1, CLO2, CLO3	Lecture and discussion on basics of graphics in programs. Example problem using graphics	Class Test 3/ Assignment (topics of the weeks9-12)
13	Miscellaneous and Final exam preparation	CLO1, CLO2, CLO3, CLO4	Lecture and discussion on Macros, C preprocessor	Exercise the answering methods in final exam.

Recommended Books:

1. **Programming in ANSI C** by E. Balagurusamy, McGraw Hill.
2. **Teach yourself C** by H. Schildt, McGraw Hill.
3. **Theory and problems of programming with C** by Byron S. Gottfried, Schaum's Outline Series, McGraw Hill.
4. **C How to Program** by H. M. Deitel and P. J. Deitel, Pearson Education.

ASSESSMENT PATTERN

Attendance- 05

CIE-Continuous Interval Evolution (25)
(Average of best 2 out of 3 will be counted)

Bloom's Category	Test-1 (25)	Test-2 (25)	Test-3/ Assignment (25)
Remember			
Understand	15	10	
Apply	5	10	10
Analyze	5	5	5
Evaluate			10
Create			

SEE-Semester End Examination (70 marks)

Bloom's Category	Test
Remember	20
Understand	20
Apply	20
Analyze	10
Evaluate	
Create	

COURSE TITLE: STRUCTURETURED PROGRAMMING LANGUAGE LAB

Course Code: CSTE 1101

Credit Hours: 1.5

Exam Hours: 3 Hours

Attendance: 05

CIE Marks: 15

Project: 30

Viva: 20

SEE Marks: 30

Course Objectives:

- Explain computing problems using programming concepts.
- To develop the students for competitive programming contests.
- Review experiments to verify the theories and concepts develop in CSTE 1101 practically.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)										
	CLO1	understand the basic program structure, different control and loop structures, array, pointer, function, Structure and Union, and file management system.										
	CLO2	use different programming concepts in solving computational problems.										
	CLO3	analyze real-world problems using the structured programming language.										
	CLO4	test their solutions with current conventional solutions.										
	CLO5	construct a project with a team to solve problems using modern tools.										

Mapping of CLO to PLO (Program Learning Outcome)		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	CLO1	√											
	CLO2	√											
	CLO3		√										
	CLO4		√										√
	CLO5												

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	Basic Program Structure <ul style="list-style-type: none"> • Data types • Operators 	CLO1, CLO2	Discussion and practice	-Home task -Quiz

	<ul style="list-style-type: none"> • Memory allocation • Various expressions • Simple arithmetic problems 			
2	Control Structures & Statements <ul style="list-style-type: none"> • If/else • Switch • Nested conditional structure • Continue and break 	CLO1, CLO2	Lecture and then Practice	Answer basic questions, quizzes, Homework, exams.
3	Loop Structures <ul style="list-style-type: none"> • Loop structure • Loop control flow • Nested loop • Loop operation 	CLO1, CLO2	Lecture and discussion with problems.	Quiz 1 (Topic of the 1-3 weeks)
4	Array <ul style="list-style-type: none"> • Array declaration • Array initialization • Array processing 	CLO1, CLO2	Lecture and discussion with problems.	Homework
5	Pointer <ul style="list-style-type: none"> • Pointer of array • Array of pointer • Dynamic memory allocation 	CLO1, CLO2	Practice with a real-life problem.	Answer basic questions, quizzes, Homework, exams.
6	Functions <ul style="list-style-type: none"> • Function declaration • Argument passing • Call by value • Call by reference • Swapping • Recursion 	CLO1, CLO2	Lecture and discussion with problems.	Homework
7	Structure, Union, and Enumerated <ul style="list-style-type: none"> • Structure declaration • Structure array • Pointers for structure • Structure passing to a function • Self-referential structure • Union declaration • Union passing to a function • Enumerated data type 	CLO1, CLO2	Lecture and discussion with problems.	Quiz 2 (Topic of the 4-6 weeks)
8	File Management <ul style="list-style-type: none"> • Create files • Read files • Write files • Update files • Sequential files • Text and binary files • Unformatted files 	CLO1, CLO2	Practice with a real-life problem.	Answer basic questions, Homework
10	Computer Graphics <ul style="list-style-type: none"> • Line drawing 	CLO2	Practice with a real-life problem.	Homework

	<ul style="list-style-type: none"> • Filling images • Patterns • Shapes • Text in graphics 	CLO3, CLO4, CLO5	Evaluate each project.	Presentation, Project, showcasing.
11-12	Project	CLO2, CLO3, CLO4	Evaluate contest result & viva.	Contest programming, Viva
13	Final Lab Exam (Programming Contest & Viva)			

ASSESSMENT PATTERN

Attendance- 05

Viva-20

CIE-Continuous Interval Evolution (15)
(Average of best 2 out of 3 will be counted)

Bloom's Category	Quiz-1 (15)	Quiz-2 (15)	Quiz-3 (15)
Remember			
Understand	10	5	
Apply	5	10	15
Analyze			
Evaluate			
Create			

Project Evaluation (PE) (30 marks)
SEE-Semester End Examination (30 marks)

Bloom's Category	PE Test (30)	SEE Test (30)
Remember		
Understand		
Apply		10
Analyze	10	10
Evaluate	5	10
Create	15	

COURSE TITLE: ELECTRIC CIRCUIT ANALYSIS

Course Code: CSTE 1105	Attendance: 05
Credit Hours: 03	CIE Marks: 25
Exam Hours: 04	SEE Marks: 70

Course Objectives:

- To acquaint students with the basic concepts and properties of electrical circuits and networks
- To teach students how to analyze both DC and AC electrical circuits
- To familiarize students with the working method and applications of electrical machine
- To introduce students to power system protection and switchgear.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)
	CLO1	understand basic electrical circuits and operating fundamentals of electrical engineering equipment and machinery.
	CLO2	describe the basic principles, laws, and theorems of DC and AC electrical circuits.
	CLO3	analyze different DC and AC electrical circuit problems.
	CLO4	design different types of electrical circuits in a real-world problem.

Mapping of CLO to PLO (Program Learning Outcome)	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	✓											
	✓											
		✓										
			✓									

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	Circuit Models: Characteristics & applications of linear circuit elements, Ideal, and non-ideal sources: Voltage and Current. Series, Parallel and Compound circuit analysis. Loading effects: Ammeter and Voltmeter.	CLO1	Lecture and discussion with detailed information about the course, including the objectives, course outcomes, examinations, Topic wise lecture delivery.	Answer basic questions, quizzes, Homework, exams.
2	Circuit Theorem and DC analysis: Ohm's law, Voltage and current divider rule, Kirchhoff's Laws.	CLO1, CLO2,	Lecture and discussion on theory and problems.	Answer basic questions, quizzes, Homework, exams.
3	Circuit Theorem and DC analysis: Mesh and Nodal analysis, The matrix form of Mesh and Nodal equations, Use of Cramer's rule, Bridge networks, T-Pie and Pie-T Conversions.	CLO1, CLO2	Lecture and discussion on theory and problems.	Answer basic questions, quizzes, Homework, exams.
4	Circuit Theorem and DC analysis: Superposition Theorem, Thevenin's Theorem, Norton's Theorem, Maximum Power Transfer Theorem, and Reciprocity Theorem.	CLO2, CLO4	Lecture and discussion on theory and problems.	Exercise with various mathematical problems.
5	Transients and Time Domain analysis: Transient in RC, RL, and RLC circuits. Pulse repetition rate and duty cycle. Average value. RC response to square wave inputs.	CLO1, CLO2	Lecture and discussion on theory and problems.	Class Test 1 (topics of the week's 1-4)
6	AC Circuits: Periodic functions, average & RMS values, Steady state behavior with sinusoidal, excitation, phasor representation, reactance and impedance, series and parallel AC circuits, resonance,	CLO1, CLO2	Lecture and discussion on theory and problems related to AC circuits.	Answer basic questions, quizzes, Homework, exams.
7	AC Circuits: Power in AC circuits, power factor, the principle of generation of single phase & Three phase voltages, Power in Balanced three-phase AC systems.	CLO1, CLO2, CLO4	Lecture and discussion on theory and problems related to AC circuits.	Answer basic questions, quizzes, Homework exams.
8	Networks: Two port network and its parameters. Equivalent circuits. Analog filter design: Elementary filter theory, Characteristics impedance. A low-pass filter, High pass filter, Band-pass filter, Band-elimination filter.	CLO1, CLO2	Lecture and discussion on theory and problems related to analog filter.	Answer basic questions, quizzes, Homework, exams.
9	Magnetic Circuits: Flux, MMF, reluctance, analogous electric circuits, simple calculations for composite magnetic circuits.	CLO1, CLO2	Lecture and discussion on theory and problems related to magnetism	Class Test 2 (topics of the week's 5-8)

05/04/2022 22:10

10	Generator: Introduction, construction, EMF equation, classification.	CLO1	Lecture and discussion on theoretical background of generator	Answer basic questions, quizzes, Homework, exams.
11	Motor: Basics of DC motor, Induction motor (single & three phase) & Synchronous motor, Stepper motor.	CLO1	Lecture and discussion on theoretical background of different types of motor	Quizzes, Homework, exams.
12	Switchgear: Switch, Fuse, Circuit Breaker, Relay.	CLO1	Lecture and discussion on switchgear	Class Test 3 (topics of the week's 9-11)
13	Review topics and Final exam preparation.		Lecture and discussion on miscellaneous topics.	Exercise the answering methods in final exam.

Recommended Books:

1. Introductory Circuit Analysis by Robert L. Boylestad, Prentice Hall.
2. A Textbook of Electrical Technology by B.L. Theraja, S. Chand.
3. Fundamentals of Electric Circuits by C. K. Alexander, M. N O.Sadiku,

ASSESSMENT PATTERN

Attendance- 05

CIE-Continuous Interval Evolution (25) (Average of best 2 out of 3 will be counted)				SEE-Semester End Examination (70 marks)	
Bloom's Category	Test-1 (25)	Test-2 (25)	Assignment (25)	Bloom's Category	Test
Remember				Remember	
Understand	15	10		Understand	15
Apply	5	5	10	Apply	10
Analyze	5	5	5	Analyze	30
Evaluate		5	5	Evaluate	10
Create			5	Create	05

COURSE TITLE: ELECTRIC CIRCUIT ANALYSIS LAB

Course Code: CSTE 1106 Credit Hours: 01	Attendance: 10 Viva: 20 SEE Marks: 70
--	---

Course Objectives:

- Provide hands-on experience to the students so that they can put theoretical concepts to practice.
- Give a specific design problem to the students, which after completion they will verify using the simulation software (PSPICE or Multisim) or hardwired implementation.
- Solve the electrical network using mesh and nodal analysis by applying network theorems.
- Explain the transient response of series and parallel A.C. circuits.
- Build a foundation of basic knowledge required for electrical machines and protection system.
- Acquire teamwork skills for working effectively in groups.
- Develop technical writing skills important for effective communication.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

Course Learning Outcomes	CLOs	Description (At the end of the course, students will be able to)
	CLO1	understand the functions of electrical instruments, machineries and simulation software.

(CLO)	CLO2	apply the concept of circuit laws and network theorems in laboratory measurements.											
	CLO3	design the various circuits in real world problem.											
Mapping of CLO to PLO (Program Learning Outcome)		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	CLO1	✓											
	CLO2	✓											
	CLO3			✓									

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	To familiarize students with the operation of different electrical instruments.	CLO1	Lecture and discussion with detailed information about the lab course, including the objectives, course outcomes, lab examinations and evaluation method.	Answer basic questions about different types of instruments.
2, 3, 4, 5	To verify the following theorems using bread boarding and simulation software (PSPICE): <ul style="list-style-type: none"> i. KCL and KVL theorem, ii. Superposition theorem, iii. Thevenin's theorem, iv. Norton's theorem and Maximum power transfer theorem 	CLO2	Through lecture, Laboratory, and out-of-class assignments.	Neatness, organization, completeness and individually written lab reports are due at the beginning of the lab period. Respected Teacher will be evaluated in lab period.
6, 7	To design and construct of low pass and high pass filter and draw their characteristics curves.	CLO2	Through lecture, laboratory, and out-of-class assignments.	
8, 9	Study the frequency response of an RLC series and parallel circuit and find its resonant frequency.	CLO2	Through lecture, laboratory, and out-of-class assignments.	
10, 11	Study the basic construction of Generator, Motor, Transformer and different types of switchgear.	CLO1	Through lecture, laboratory, and out-of-class assignments.	
12	Submit a mini project in a group	CLO3		
13	Final Lab Exam (Job, Quiz and Viva)			

ASSESSMENT PATTERN

Attendance- 10

Viva- 20

SEE-Semester End Examination (70 marks)

Bloom's Category	Test
Remember	
Understand	20

		30
	Apply	10
	Analyze	10
	Evaluate	
	Create	

COURSE TITLE: ELECTROMAGNETISM, OSCILLATIONS, HEAT AND OPTICS

Course Code: PHYS 1101
Credit Hours: 03
Exam Hours: 04

Attendance: 05
CIE Marks: 25
SEE Marks: 70

Course Objectives:

- Make the students familiarize with the idea of fundamental laws of electric field and magnetic field, electric potential, capacitor, inductor, and their application.
- To explain different types of oscillatory motion.
- To give an idea about the kinetic theory of gases and laws of thermodynamics.
- To introduce basic concepts about interference, diffraction, and polarization of light.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)											
		understand the basic laws of the electric and magnetic field, electric potential, capacitance, inductance, oscillatory motion, the behavior of light, and laws of thermodynamics.											
		apply the basic laws of physics in solving the problem.											
Mapping of CLO to PLO (Program Learning Outcome)	PLO1	√	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	CLO1	√											

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	Coulomb's law, Electric field; Gauss's law and its application; Electric potential; Coulomb's Law Electric field;	CLO1, CLO2	Lecture and discussion with detailed information about the course, including the objectives, course outcomes, examinations. Topic wise lecture delivery.	Answer basic questions, quizzes, Homework, exams.
2	Capacitors and capacitance: Capacitors with dielectrics, Dielectrics and atomic view, Charging and discharging of a capacitor;	CLO1	Lecture and discussion with problems.	
3	Magnetic field: Magnetic induction, Magnetic force on a current carrying conductor, Torque on a current carrying loop, Hall effect.	CLO1, CLO2	Lecture and discussion with problems.	Answer basic questions, quizzes, Homework, exams.
4	Faraday's law of electromagnetic induction; Lenz's law; Self-induction; Mutual induction;	CLO1, CLO2	Lecture and discussion with problems.	Answer basic questions, quizzes, Homework, exams.

05/01/2022

22:11

	Magnetic properties of matter; Hysteresis curve; Maxwell equations.			
5	Differential equations of simple harmonic oscillator, Total energy and average energy, Combinations of simple harmonic oscillations, Lissajous' figures, spring mass system, Time period of torsional pendulum.	CLO1	Exercise with various mathematical problems.	Class Test 1 (topics of the week's 1-4)
6	Damped oscillation: Determination of damping coefficient, Forced oscillation: Resonance, Two body oscillations, Reduced mass.	CLO1	Lecture and discussion with problems.	
7	Differential equation of progressive wave, Power and intensity of wave motion; Stationary wave: Group velocity and phase velocity: Doppler effect:	CLO1	Lecture and discussion with problems.	
8	Kinetic theory of gases: Deduction of gases law, Principle of equipartition of energy; Equation of state, Andrew's experiment.	CLO1	Lecture and discussion with problems.	Answer basic questions, quizzes, Homework, exams.
9	Vander Waals equation, Critical constants, Transmission of heat conduction, Convention and radiation, Laws of thermodynamics.	CLO1	Lecture and discussion with problems.	Class Test 3 (topics of the week's 5-8)
10	Interference of light, Young Double slit experiment, Fresnel Biprisms, Interference of wedged shaped films, Newton's ring, Interferometer.	CLO1	Lecture and discussion with problems.	Answer basic questions, quizzes, Homework exams.
11	Diffraction of light: Fresnel and Fraunhofer diffractions; Diffraction by single slit, Diffraction from circular aperture.	CLO1	Lecture and discussion with problems.	Answer basic questions, quizzes, Homework, exams.
12	Resolving power of optical instruments, Diffraction at double slit and N-slits-diffracting.	CLO1	Understanding and solving the problem.	
13	Polarization: Production and analysis of polarized light; Brewster's law, Malus's law, Polarization by double refraction, Retardation plates, Nicol prism, Optical activity, Polarimeters, Polaroids.	CLO1	Lecture and discussion with problems.	Class Test 3 (topics of the week's 9-12)

Recommended Books:

1. Physics Vol-1 and 2 by D. Halliday and R. Resnick, Wiley Eastern Private Ltd.
2. Vibrations and Waves -The MIT Introductory Physics series by A. P. French, CBS.
3. Heat and thermodynamics by Brijlal and N. Subrahmanyam
4. Physics for engineer by Dr. Giasuddin Ahmed.

ASSESSMENT PATTERN

Attendance- 05

CIE-Continuous Interval Evolution (25) (Average of best 2 out of 3 will be counted)			SEE-Semester End Examination (70 marks)	
Bloom's Category	Test-1 (25)	Test-2 (25)	Assignment (25)	Bloom's Category

Test

Remember				Remember		
Understand	10	5	25	Understand		25
Apply	15	20		Apply		45
Analyze				Analyze		
Evaluate				Evaluate		
Create				Create		

COURSE TITLE: PHYSICS LAB

Course Code: PHYS 1102
Credit Hours: 01
Exam Hours: 03

Attendance: 10
Final Viva: 20
SEE Marks: 70

Course Objectives:

- To familiarize students with the operation of different instruments.
- Explain physical phenomena in the tests performed (a connection between physical laws and their application).
- Discuss different methods to determine unknown things such as thermal conductivity of bad conductor, the focal length of a lens, refractive index of the material, etc.
- Statistical analysis of results obtained by experiment, interpretation of the results.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)										
	CLO1	gain significant experience with various equipment										
	CLO2	verify the laws of resistances and compare EMF of two cells using a post office box and potentiometer.										
	CLO3	determine the thermal conductivity of a bad conductor, the mechanical equivalent of heat, the focal length of a convex lens, the radius of curvature of a plane convex lens, the refractive index of the liquid and material using various methods.										
	CLO4	statistical analysis of the results obtained by experiment.										
	CLO5	acquire teamwork skills for working effectively in groups.										

Mapping of CLO to PLO (Program Learning Outcome)	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	√											
	√											
	√											
		√										
												√

Lesson Plan (as per week):

Week 05/04/2022 22:11 1	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
	To familiarize students with the operation of different instruments.	CLO1	Lecture and discussion with detailed information about the lab course, including the objectives, course outcomes, lab examinations and evaluation method.	Answer basic questions about different types of instruments.

2, 3, 4, 5	1. Determination of unknown resistances and verification of the laws of resistances by P.O Box. 2. Comparison of EMF of two Cells. 3. Determination of the thermal conductivity of a bad conductor by Lee's method.	CLO2, CLO3, CLO5	Through lecture, Laboratory, and out-of-class assignments.	Neatness, organization, completeness and individually written lab reports are due at the beginning of the lab period. Respected Teacher will be evaluated in lab period.
6, 7, 8	4. Determination of mechanical equivalent of heat by an electrical method. 5. Determination of the focal length of i. a convex lens by displacement method and ii. a concave lens by an auxiliary lens method.	CLO3, CLO4, CLO5	Through lecture, Laboratory, and out-of-class assignments.	
9, 10	6. Determination of the refractive index of a liquid by a plane mirror and a pin method using a convex lens. 7. Measurement of the refractive index of the material of a prism with the help of a spectrometer.	CLO3, CLO4	Through lecture, laboratory, and out-of-class assignments.	
11, 12	8. Determination of the radius of curvature of a planoconvex lens by Newton's method.	CLO3, CLO4	Through lecture, laboratory, and out-of-class assignments.	
13	Final Lab Exam (Job, Quiz and Viva)			

Recommended Books:

- Practical Physics, Gias Uddin and Shabuddin

ASSESSMENT PATTERN

Attendance- 05

Viva- 20

SEE-Semester End Examination (70 marks)

Bloom's Category	Test
Remember	
Understand	20
Apply	20
Analyze	30
Evaluate	
Create	

COURSE TITLE: DIFFERENTIAL AND INTEGRAL CALCULUS

Course Code: MATH 1101

Credit Hours: 02

Exam Hours: 03

Attendance: 05

CIE Marks: 25

SEE Marks: 70

Course Objectives:

- Make the students familiarize with various types of Differentiation and Integration
- Discuss various theorems to solve the problem.
- Provide knowledge about functions and formulas in engineering solutions.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Mathematica, MATLAB,

Question bank, Previous questions.

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)											
	CLO1	understand various types of differentiation and integration.											
	CLO2	apply differentiation and integration in solving engineering problems											
	CLO3	use functions and theorems in engineering problems.											
	CLO4	analyze functions and theorem in engineering solutions.											
Mapping of CLO to PLO (Program Learning Outcome)		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	CLO1	√											
	CLO2	√											
	CLO3	√											
	CLO4		√										

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	Differential Calculus: Limits, continuity and differentiability;	CLO1	Lecture and discussion with objectives, outcomes of the course.	Answer basic questions, quizzes, Homework, exams.
2	Successive differentiation of various types of functions;	CLO2, CLO3	Lecture and discussion with characteristics parameters of functions. Analyzing functions.	quizzes, Homework, exams.
3	Leibnitz's Theorem; Rolle's Theorem; Mean value Theorem;	CLO3	Lecture and discussion with solution of problems using Mathematica.	Explanation, quizzes, Homework, exams.
4	Expansion of functions; Evaluation of indeterminate forms by L' Hospitals rule;	CLO3	Do.	Exercise with various mathematical problems.
5	Euler's Theorem; Tangent and Normal; Maximum and minimum values of functions of single variable; Curvature, Asymptotes	CLO3	Do.	Class Test 1 (topics of the week's 1-4)
6	Partial differentiation;	CLO2	Do.	Exercise with Mathematica. Homework, exams.
	Integral Calculus: Definitions of integration; Integration by the method of substitutions;	CLO2	Do.	Do.

8	Integration by parts; Standard integrals; Integration by the method of successive reduction;	CLO2	Do.	Do.
9	Definite integrals and its use in summing series;		Do.	Class Test 2(topics of the week's 5-8)
10	Walli's formula, Improper integrals, Beta function and Gamma function;	CLO4	Do.	Exercise with Mathematica.
11	Area under a plane curve; Area of the region enclosed by two curves;	CLO2	Do.	Do.
12	Volume of solids of revolution; multiple integrals and its application.	CLO2	Do.	Class Test 3(topics of the week's 9-12)
13	Review topics and Final exam preparation.	CLO1-CLO4	Discussion on miscellaneous topics.	

Recommended Books:

1. Erwin Kreyszig, "Advanced Engineering Mathematics", Wiley Eastern
2. Babu Ram, "Engineering Mathematics", Pearson Education
3. H. K. Dass "Higher Engineering Mathematics", S. Chand & Co.
4. B.S. Grewal, "Engineering Mathematics", S. Chand & Co.,
5. Das & Mukherjee, "Differential Calculus", U.N. Dhar & Sons Private Ltd.
6. Das & Mukherjee, "Integral Calculus", U.N. Dhar & Sons Private Ltd.

ASSESSMENT PATTERN

Attendance- 05

CIE-Continuous Interval Evolution (25)
(Average of best 2 out of 3 will be counted)

SEE-Semester End Examination (70 marks)

Bloom's Category	Test-1 (25)	Test-2 (25)	Assignment (25)
Remember	5		
Understand	5	5	
Apply	15	15	25
Analyze		5	
Evaluate			
Create			

Bloom's Category	Test
Remember	10
Understand	25
Apply	25
Analyze	10
Evaluate	
Create	

COURSE TITLE: ENGLISH LANGUAGE

Course Code: ENG 1101

Credit Hours: 02

Exam Hours: 03

Attendance: 05

CIE Marks: 25

SEE Marks: 70

Course Objectives:

- Prepare the students to take the IELTS by discussing, practicing, and analyzing each segment of the test.
- Improve students' IELTS test-taking skills and strategies in each section of the test.
- Review particular grammatical patterns that occur regularly on the IELTS.
- Simulate actual test-taking conditions so that student become familiar with and more comfortable with test situations.
- Improve the quality and quantity of writing.

Resources Used: Multimedia, Whiteboard, Marker, Handouts, pdf books, e-Tutorials, Device manual, Question bank, Previous questions.

05/04/2022
2022-12

Course Learning Outcomes (CLO)	CLOs	Description (At the end of the course, students will be able to)										
	CLO1	comprehend English speech, stress, and intonation.										
	CLO2	understand basic grammar principles.										
	CLO3	use appropriate language and vocabulary.										
	CLO4	write clear and coherent passages, effective letters for job application and complaints, technical reports										
	CLO5	enhance reading comprehension.										
Mapping of CLO to PLO (Program Learning Outcome)	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
	✓											
	✓											
	✓											✓
	✓											

Lesson Plan (as per week):

Week	Course Contents	CLOs	Teaching Learning Strategy (activities directed to achieve outcomes)	Assessment Strategy (How they are developed)
1	English phonetics: the places and manners of articulation of the English sounds;	CLO1	Lecture and discussion with detailed information about the course, including the objectives, course outcomes, examinations, Topic wise lecture delivery.	Answer basic questions, quizzes, Homework, exams.
2	Grammar: Grammatical principles, modals, phrases & idioms, affixes, sentence structures, why & yes/no questions, conditional sentences	CLO2,	Lecture and discussion on theory and problems.	Answer basic questions, quizzes, Homework, exams.
3	Vocabulary building: technical and scientific vocabulary; Correct and precise diction, affixes, the level of appropriateness. Colloquial and standard, informal and formal	CLO3	Lecture and discussion on theory and problems.	Answer basic questions, quizzes, Homework, exams.
4, 5, 6, 7, 8	Technical Writing: (i) Paragraph writing. Interpreting from table /data/ wagon wheel / graph /figure (At least 150 words) (ii) Opinion based essay writings (At least 250 words) (iii) Business letters, job application, memos, quotation, tender notice, research reports, research projects, Press release, proof reading and editing, designing questionnaires and understanding survey, journal writing.	CLO4	Lecture and discussion on theory and problems.	Class Test 1(topics of the week's 1-3)
9, 10, 11, 12	Reading: Reading approaches, Comprehension of technical & non-	CLO1	Lecture and discussion on theory and problems	Class Test 2 (topics of the week's 4-8)

technical materials-skimming, scanning, inferring & responding to context
Passages must be paragraph types with letter marks (A, B, C, D.....)
Options:-

Write correct letter in boxes from letter marks (A, B, C, D.....) passages which match with each sentence
Or, Matching with events from letter marks (A, B, C, D.....) passages
Or, List of headings
Or, Statements agree with information (True/False/Not Given)
Or, Fill up with appropriate word from the passages without list
Or, Fill up with appropriate word from the passages with list (synonyms word)
Or, multiple choice

13	Review topics and Final exam preparation	CLO1-CLO5	Lecture and discussion on miscellaneous topics.	Class Test 3 (topics of the week's 9-12).
----	--	-----------	---	--

Recommended Books:

1. John M. Lennon: Technical Writing
2. A.J. Thomson and A.V. Martinet: A Practical English Grammar
3. A. Ashley: Oxford Handbook of Commercial Correspondence
4. J. Swales: Writing Scientific English
5. Robert J. Dixson: Complete Course in English
6. Rajendra Pal & J.S. Korlahalli: Essentials of Business Communications
7. Cambridge IELTS 1-10, Cambridge University Press, 2011.

ASSESSMENT PATTERN

Attendance- 05

CIE-Continuous Interval Evolution (25)
(Average of best 2 out of 3 will be counted)

SEE-Semester End Examination (70 marks)

Bloom's Category	Test-1 (25)	Test-2 (25)	Assignment (25)
Remember	10	10	
Understand	5	5	10
Apply	10	10	15
Analyze			
Evaluate			
Create			

Bloom's Category	Test
Remember	25
Understand	25
Apply	20
Analyze	
Evaluate	
Create	

কোর্সের নাম : বাংলা ভাষা ও সাহিত্য

কের্ন কোড: BANG-1101

ক্লেচিট: ৩

পঞ্জীয়ন সময়: ০৮ ঘণ্টা

04/2022
2/212

উপস্থিতি = ০৫

শ্রেণি মূল্যায়ন (CIE) = ২৫

ফাইনাল পরীক্ষা (SEE) = ৭০

কোর্সটির উদ্দেশ্য (Course Objectives):

- শিক্ষার্থীদের ভাষাগত দক্ষতা বৃদ্ধি ও পাশাপাশি প্রাত্যহিক জীবনে শুন্দ উচ্চারণের ব্যবহার বিকাশ।
- ব্যকরণের প্রাথমিক জ্ঞান অব্যবহেরে মাধ্যমে প্রমিত বানান বীতির ব্যবহার ও লেখন দক্ষতা বৃদ্ধি।
- সাহিত্যে ও অভ্যন্তরিত আস্বাদনের মাধ্যমে শিক্ষার্থীদের মানবিক মূল্যবোধ জগত করা।

শিখন উপকরণ (Resources Used): হোয়াইট বোর্ড, মার্কার, মাল্টিমিডিয়া, গ্রন্থ, বিগত বছরের প্রশ্ন।

কোর্স শিখন প্রাপ্তি (Course learning outcomes (CLO))	CLOs	বিবরণ: (কোর্সটির শেষে শিক্ষার্থীরা সক্ষম হবেন)
	CLO1	বাংলা ভাষার পূর্বাপর পরিচয়, বাস্তবিক ও ব্যবহারিক জ্ঞান, অক্ষর, ধ্বনি, বাংলা ধ্বনির শুন্দ উচ্চারণ, বাংলা শব্দ গঠন সম্পর্কিত ধারণা, বাংলা বাক্য গঠন সম্পর্কিত ধারণা, বাংলা বানানের পূর্বাপর ইতিহাস, প্রমিতরীতি সম্পর্কিত জ্ঞান, বাংলা সাহিত্যে ও ইতিহাস সম্পর্কে জানতে/ মনে রাখতে সক্ষম হবেন।
	CLO2	ধ্বনি ও অক্ষরের মধ্যে প্রার্থক্য নির্ণয়, গল্প, কবিতা, প্রবন্ধের আঙিকে সাহিত্যে ও ধারাক্রমের সাথে যোগাযোগ হ্রাপনে সক্ষম হবেন।
	CLO3	কবিতা, গল্প, প্রবন্ধের আঙিকে বাংলা সাহিত্যে ও ইতিহাসের গতি প্রকৃতি বিশ্লেষণ করার মধ্য দিয়ে সমাজ ব্যবস্থা তথা বাঙালির পূর্বাপর জীবনধারা, সমাজ ব্যবস্থার নানা ক্রিটিক্যালি তুলে ধণে তা থেকে সমাধানের পথ নির্ণয়ে সক্ষম হবেন।
ম্যাপিং CLO থেকে PLO (প্রোগাম শিখন প্রাপ্তি) (Program Learning Outcome)	PLO1	
	PLO2	
	PLO3	
	PLO4	
	PLO5	
	PLO6	
	PLO7	
	PLO8	
	PLO9	
	PLO10	
	PLO11	
	PLO12	

Lesson Plan (as per week):

ক্রম নং	কোর্সের বিষয় Course Contents	কোর্স শিখন প্রাপ্তি CLOs	শিখন পদ্ধতি Teaching Learning Strategy (activities directed to achieve outcomes)	মূল্যায়ন পদ্ধতি Assessment Strategy (How they are developed)
01	• ভাষা: সংজ্ঞা, প্রকৃতি ও বৈশিষ্ট্য • বাংলা ভাষার প্রাথমিক পরিচয় বৈশিষ্ট্য ও রূপ বৈচিত্র	CLO1	বক্তব্য উপস্থাপন	কুইজ
02	• বাংলা ধ্বনি ও অক্ষরের প্রাথমিক পরিচয় • স্বরধ্বনি ও ব্যঞ্জনধ্বনির বৈশিষ্ট্য ও শ্রেণিবিন্যাস	CLO1, CLO2	বক্তব্য এবং শ্রতিগ্রাহ্য বাংলা ধ্বনি প্রযুক্তি সহযোগে উপস্থাপন	শ্রেণি উপস্থাপনা ও গ্রুপ আলোচনা
03	• উচ্চারণ স্থান ও উচ্চারণ বীতি অনুযায়ী বাংলা ধ্বনি বিশ্লেষণ	CLO1	বক্তব্য এবং শ্রতিগ্রাহ্য বাংলা ধ্বনি প্রযুক্তি সহযোগে উপস্থাপন	শ্রেণি উপস্থাপনা ও গ্রুপ আলোচনা
04	• বাংলা শব্দ ও বাক্যে ও প্রাথমিক পাঠ এবং বাংলা শব্দ ও বাংলা বাক্য গঠন প্রক্রিয়া	CLO1	বক্তব্য উপস্থাপন	শ্রেণি উপস্থাপনা ও গ্রুপ আলোচনা
05	• বাংলা বানানের সংক্ষেপের ধারাক্রম: বিশ্বভারতী, কলকাতা বিশ্ববিদ্যালয় পশ্চিমবঙ্গ বাংলা আকাদেমি, বাংলা একাডেমি, ঢাকা।	CLO1	বক্তব্য উপস্থাপন	বানান নিয়ে কুইজ। শ্রেণি পরীক্ষা-০১ (সপ্তাহ ১-৪)
05/04/2022:13 07	• বাংলা সাহিত্যের- সংক্ষিপ্ত ইতিহাস	CLO3	বক্তব্য উপস্থাপন	গ্রুপ আলোচনা
	• নির্বাচিত কবিতা (১,২,৩) এর বিষয় বিন্যাস, কবি পরিচিতি, মূলভাব বিশ্লেষণ, চরিত্র-চিত্রণ	CLO2, CLO3	বক্তব্য উপস্থাপন	গ্রুপ আলোচনা

০৮	নির্বাচিত কবিতা (৪,৫,৬) এর বিষয় বিন্যাস, কবি পরিচিতি, মূলভাব বিশ্লেষণ, চরিত্র-চিত্রণ	CLO2, CLO3	বক্তব্য উপস্থাপন	একপ আলোচনা
০৯	ছেট গল্পের সংজ্ঞা, নির্মান কৌশল নির্বাচিত গল্প-০১ এর বিষয় বিন্যাস, লেখক পরিচিতি, মূলভাব বিশ্লেষণ, চরিত্র-চিত্রণ	CLO2, CLO3	বক্তব্য উপস্থাপন	শ্রেণি পরীক্ষা-০২ (সপ্তাহ ৫-৮)
১০	নির্বাচিত গল্প-০২ এবং ০৩ এর বিষয় বিন্যাস, লেখক পরিচিতি, মূলভাব বিশ্লেষণ, চরিত্র-চিত্রণ	CLO2, CLO3	বক্তব্য উপস্থাপন	অ্যাসাইনমেন্ট
১১	প্রবন্ধের নির্মান কৌশল ও নির্বাচিত প্রবন্ধ-০১ এর বিষয় বিন্যাস, লেখক পরিচিতি, মূলভাব এবং বাস্তবিক প্রয়োগের যথাযথ বিশ্লেষণ	CLO2, CLO3	বক্তব্য উপস্থাপন	অ্যাসাইনমেন্ট
১২	নির্বাচিত প্রবন্ধ-২ এবং ৩ এর বিষয় বিন্যাস, লেখক পরিচিতি, মূলভাব এবং বাস্তবিক প্রয়োগের যথাযথ বিশ্লেষণ	CLO2, CLO3	বক্তব্য উপস্থাপন	একপ আলোচনা
১৩	রিভিউ ক্লাস	CLO1, CLO2, CLO3	বক্তব্য উপস্থাপন	শ্রেণি পরীক্ষা-০৩ (সপ্তাহ ১০-১২)

সহায়ক ছবি:

- ১। ভাষা ও সাহিত্যের যুগলবন্দি। চন্দনআনোয়ার ও শুভেন্দু সাহা (রচনাওসম্পা.)
- ২। আধুনিকভাষাতত্ত্ব। আবুলকালাম মনজুর মোরশেদ
- ৩। ধ্বনিবিজ্ঞান ও বাংলাধ্বনিতত্ত্ব। মুহম্মদ আবদুলহাই
- ৪। সাধারণভাষাভাষিজ্ঞান ও বাংলাভাষা। রামেশ্বর শ
- ৫। ধ্বনিবিজ্ঞানের ভূমিকা। জীনাতইমতিয়াজালী
- ৬। বাঙ্গালা ভাষার ইতিবৃত্ত। মুহম্মদ শহীদুল্লাহ
- ৭। ভাষার ইতিবৃত্ত। সুকুমার সেন
- ৮। ভাষাপ্রকাশবাংলাব্যাকরণ। সুনীতিকুমারচট্টগাধ্যায়
- ৯। বাংলাভাষা ও সাহিত্যের ইতিহাস। সৌরভসিকদার
- ১০। বাংলাভাষার শক্তিমিত্র। হ্রদয়নাথাজাদ
- ১১। বাংলাসাহিত্যের ইতিহাস। সুকুমার সেন
- ১২। বাংলাসাহিত্যের ইতিহাস। আনিসুজ্জামান সম্পাদিত
- ১৩। আশীরচলনেভূলি : গোলাম মুরশিদ
- ১৪। রবিস্ত্রসাহিত্যের ভূমিকা : নীহার ঘোষণায়
- ১৫। রবিস্ত্র ছেটগল্পের সমাজতত্ত্ব। ক্ষেত্র গুণ্ঠ
- ১৬। কাজীনজরুল ইসলাম : কবি ও কবিতা। আবদুলমান্নান সৈয়দ
- ১৭। নজরেনের জীবন ও কর্মে প্রেম। চন্দনআনোয়ার
- ১৮। আধুনিকবাংলাকাব্য পরিচয়। দীপ্তিপাঠী
- ১৯। জীবনানন্দ দাশের কবিতা : নন্দনতাত্ত্বিকবিচার। মাহবুবসাদিক
- ২০। সৈয়দ শামসুলহকের সাহিত্যকর্ম : মোস্তফাতারিকুলআহসান
- ২১। শামসুর রাহমান : নিঃসঙ্গ শেরপা : হ্রদয়নাথাজাদ
- ২২। রংপুর মুহম্মদ শহিদুল্লাহ : স্মারকগ্রন্থ। হিমেলবরকদ সম্পাদিত
- ২৩। ছেটগল্পের দর্শন ও নির্দর্শন। মাসুদ রহমান
- ২৪। মানিক বন্দ্যোপাধ্যায়ের ছেটগল্প : সমাজচেতনা ও জীবনের রূপায়ণ
- ২৫। সেলিনা হোসেনের কথাসাহিত্যে দেশ কালজাতি। মাসুদুজ্জামান ও বরেন্দ্র মণ্ডলসম্পাদিত
- ২৬। হাসান আজিজুল হকের কথাসাহিত্য : বিষয়বিন্যাস ও নির্মাণকৌশল। চন্দনআনোয়ার
- ২৭। আখতারগামান ইলিয়াস : নির্মাণবিন্যাস
- ২৮। সৈয়দ ওয়ালীউল্লাহ : জীবন ও সাহিত্য। সৈয়দ আবুলমকসুদ
- ২৯। বেগম রোকেয়া : সময় ও সাহিত্য। মোরশেদ শফিউলহাসান
- ৩০। মুসলিমসাহিত্য সমাজ : সমাজচিন্তা ও সাহিত্যকর্ম। খোলকারসিরাজুলহক
- ৩১। বীরবল ও বাংলাসাহিত্য। অরূপকুমার মুখোপাধ্যায়।

মূল্যায়ন নমুনা:

উপস্থিতি = ০৫

শ্রেণি মূল্যায়ন = ২৫

CIE-Continuous Interval Evolution (25)
(Average of best 2 out of 3 will be counted)

Bloom's Category	শ্রেণি পরীক্ষা-০১ (২৫)	শ্রেণি পরীক্ষা-০২ (২৫)	শ্রেণি পরীক্ষা-০৩ (২৫)
Remember	১০	০৫	
Understand	১৫	১৫	
Apply		০৫	১৫
Analyze			১০
Evaluate			
Create			

ফাইনাল পরীক্ষা = ৭০

SEE-Semester End Examination (70 marks)

Bloom's Category	Test
Remember	২০
Understand	২০
Apply	১৫
Analyze	১৫
Evaluate	
Create	