

B.Sc
Course Outcomes
Odd Semester 2022-23

I Sem BSc

Name of the Course :	ವಿಜ್ಞಾನ ಸೌರಭ, ಬಿ.ಎಸ್ಸಿ.ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್
Class :	ಬಿ.ಎಸ್ಸಿ.ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್
Course Code:	AECKA .2.2
CO1	ಪದವಿದರರು ಪಠ್ಯವಿಷಯಗಳನ್ನು ಕುರಿತು ಸಾಮಾನ್ಯನಿಯಮಾವಳಿಗಳ ತಿಳಿವಳಿಕೆಯನ್ನು ಹೊಂದಿದರು.
CO2	ಪದವಿದರರು ಕಲನೈ, ವೈಚಾರಿಕ ಚಿಂತನೆಯ ಜೊತೆಗೆ, ವಿಮರ್ಶಾ ದೃಷ್ಟಿಕ್ಷೋನವನ್ನು ಪಠ್ಯಗಳ ಅಧ್ಯಯನದ ಮೂಲಕ ಬೆಳೆಸಿಕೊಂಡರು
CO3	ಪದವಿದರರು ಸಮಸ್ಯೆಗಳ ಅಧ್ಯಯನ ಮತ್ತು ಪರಿಹಾರ ಕಂಡಹಿಡಿಯುವ ಕೌಶಲ್ಯ ಪಡೆದುಕೊಂಡರು
CO4	ಪದವಿದರರು ಆಧುನಿಕ ಸಮೂಹ ಮಾಧ್ಯಮಗಳ ಮೂಲಕ ಮತ್ತು ಮುತ್ತುವಿದುನ್ವಾನ ಮಾಧ್ಯಮಗಳ ಮೂಲಕ ಭಾಷೆಯನ್ನು ಸಂವಹನದಿಂದ ಯುಕ್ತವಾಗಿ ಬಳಸುವ ಜ್ಞಾನವನ್ನು ಹೊಂದಿದರು
CO5	ಪದವಿದರರು ನಾಯಕತ್ವದಿಂದ ಯಾವುದೇ ವಿಷಯವನ್ನು ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಅಭಿವೃದ್ಧಿಗೊಳಿಸುವ ಕೌಶಲವನ್ನು ಹೊಂದಿದರು

Name of the course	kaavya smruti
Class	B.Sc I
Course Code	Hindi
CO1	भक्ति और नीति की शिक्षा प्राप्त करना।
CO2	धर्मिक ग्रंथों के उद्धरण द्वारा सीख मिलना।
CO3	नैतिक मूल्यों के महत्त्व को बताना।

CO4	श्रमदान की निःस्वार्थ भावना को दर्शाना।
CO5	राष्ट्रप्रेम और साहित्य सेवा की भावना।

Name of the Course	Yakshaprashna Sangraha, Grammar and Comprehension
Class	1 Sem B.Sc.,
Course Code	AECC05.4
CO1	Students will gain/learn basic knowledge of Sanskrit language.
CO2	Students will gain/learn knowledge about Indian epics, particularly Mahabharath. Students will gain/learn the virtues of good human being.
CO3	Students will gain/learn Sense of open mindness, impartial behaviour, un-biased nature, Zeal to help others.
CO4	Students will gain/learn declination and conjugation of nouns and verbs in the Sanskrit language.
CO5	Students will gain/learn to understand and interpret some simple unread passages.

Course Outcomes	
Name of the Course	Problem Solving Techniques (TH & L)
Class	I Sem B.Sc
Course Code	DCCS101
CO1	Follow the role of Algorithms in computers, Asymptotic Notations, Generating algorithms.
CO2	Construct programs that demonstrate effective use of advanced c features including the pre-processor, pointers, void *, static and external variables, Loops ,Arrays, Command Line Arguments
CO3	Construct programs that demonstrate effective use of advanced c features including the pre-processor, pointers, void *, static and external variables, Loops, Arrays, Command Line Arguments
CO4	Student will be able to handle operations like searching- Binary & Linear, sortings like Insertion, Selection sort, Merge Sort and text processing.

Name of the Course	Generic English
Class	I Sem BCA/BSC
Course Code	AECCO2.3
CO1	To acquire the LSRW Skills
CO2	Learn to appreciate literary art.
CO3	To be aware of social responsibilities.
CO4	To acquire the skills of creativity to express one's experience
CO5	To increase their analytical Skills.

Name of the Course	Electronic Devices and Devices Lab
Class	I Semester B.Sc
Course Code	ELE-CP1
CO1	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
CO2	Study about Rectifiers, Voltage Regulators and Voltage Multipliers
CO3	Verification of Network theorems and VI characteristics of Pn junction and Zener diode
CO4	Study transistor characteristics and RLC circuits
CO5	Basic Knowledge about logic gates and universal property of NAND and NOR

Name of the Course	Electronic Devices and Devices
Class	1 Semester B.Sc
Course Code	ELE-CT1
CO1	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
CO2	To acquire experimental skills, analysing the results and interpret data
CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
CO4	Capacity to identify and implementation of the formulae to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.

Name of the Course	Corporate Mathematics
Class	I Sem B.Sc
Course Code	MATOET1
CO1	Student should be able to Learn Learn types of equations and methods to solve linear, quadratic equations.

CO2	Student should be able to Learn how to represent data through graphs and analyze.
CO3	Student should be able to Learn frequency distribution , mean, median and mode.
CO4	Student should be able to Learn GM, HM, AM concepts
CO5	Student should be able to Learn Learn formation and solution of LPP through graphical methods.

II Sem BSc

Name of the Course	Generic English
Class	II Sem BCA/BSC
Course Code	AECEN2.3
CO1	To acquire the LSRW Skills.
CO2	Learn to appreciate literary art.
CO3	To develop their ability as critical readers and writers.
CO4	To Increase their reading skills.
CO5	To increase their analytical Skills.

Name of the Course	Vigraha of Hitopadesha Grammar, Translation and Comprehension
Class	II Sem B.Sc.,
Course Code	AESK2.4
CO1	Students will be introduced to popular tales & fables in Sanskrit.
CO2	Students will gain knowledge about some well known books in Katha Sahitya such as Panchatantra, Hitopadesha etc.,.
CO3	Students will learn different types of Humanities , necessity of practicing different types of human nature, house holder and his duties towards society etc.

CO4	Students will gain knowledge about social behaviour and values from Katha Sahitya.
CO5	Students will learn to frame sentences, splits and effects the sandhis and learns the translation from Sanskrit to Kannada/English

Name of the Course :	ವಿಜ್ಞಾನ ಸೌರಭ 2ನೇ ಸೆಮಿಸ್ಟರ್
Class :	ವಿಜ್ಞಾನ ಸೌರಭ 2ನೇ ಸೆಮಿಸ್ಟರ್
Course Code:	ವಿಜ್ಞಾನ ಸೌರಭ -AECKA2.2
CO1	ಪದವಿದರರು ವಿವಿಧ ಕವಿತೆ, ಕಥೆ, ಲೇಖನಗಳ ರೂಪ ಸ್ವರೂಪಗಳ ಬಗೆಗೆ ತಿಳಿವಳಿಕೆ ಪಡೆದುಕೊಂಡರು ಹಾಗೂ ಪಠ್ಯಕ್ರಮದ ಕವಿತೆ, ಕಥೆ, ಲೇಖನಗಳ ಬಗ್ಗೆ ವಿಷಯಗಳನ್ನು ಚಿತ್ರಿಸಿ ವಿಮರ್ಶಾತ್ಮಕ ಚಿಂತನೆಯನ್ನು ಬೆಳೆಸಿಕೊಂಡರು
CO2	ಪದವಿದರರು ಭಾಷೆ-ಸಾಹಿತ್ಯದ ಉತ್ಪತ್ತಿ ಸಂವಹನ ಮತ್ತು ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವುದು ಸಾಹಿತ್ಯದ ಮುಖೇನ ಸಮಾಜೋ, ಧಾರ್ಮಿಕ, ರಾಜಕೀಯ ತಿಳುವಳಿಕೆಯನ್ನು ಪಡೆದು ಪರಿಹಾರವನ್ನು ಕಂಡುಕೊಂಡರು ಹಾಗೂ. ಭಾಷೆ-ಸಾಹಿತ್ಯದ ಉತ್ಪತ್ತಿ ಸಂವಹನ ಮತ್ತು ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಬೆಳೆಸಿಕೊಂಡರು
CO3	ಸಾಹಿತ್ಯದ ಮುಖೇನ ಸಮಾಜೋ, ಧಾರ್ಮಿಕ, ರಾಜಕೀಯ ತಿಳುವಳಿಕೆಯನ್ನು ಮತ್ತು ನಾಯಕತ್ವವನ್ನು ಬೆಳೆಸಿಕೊಂಡರು
CO4	ಪದವಿದರರು ಭಾಷೆ-ಸಾಹಿತ್ಯದ ಉತ್ಪತ್ತಿ ಸಂವಹನ ಮತ್ತು ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವುದು
CO5	ವಿದಾರ್ಥಿಗಳಲ್ಲಿ ಕಲನ, ವೈಚಾರಿಕ ಚಿಂತನೆ ಮತ್ತು ಸಾಹಿತ್ಯಮುಖೇನ ಸಮಾಜೋ, ಧಾರ್ಮಿಕ, ರಾಜಕೀಯ ತಿಳುವಳಿಕೆಯನ್ನು ಪಡೆದುಕೊಂಡರು.

Name of the Course	Analog and Digital Electronics
Class	II Semester B.Sc
Course Code	ELE-CT2

CO1	Understand and study the behaviour of the semiconductor devices ie., I-V characteristics of various MOSFET devices the knowledge can be extended for understanding the behaviour /characteristics/ response of unknown / novel devices
CO2	Applying the standard device models to explain/calculate critical internal parameters of semiconductor devices
CO3	Understanding and characterizing the behaviour of known/unknown/novel power electronic devices such as UJT, SCR, Diac, Triac etc
CO4	Understanding the working of basic logic gates, concepts of Boolean algebra and techniques to simplify Boolean expressions. Synthesizing and Analyzing combinational and sequential circuits and their applications in electronics

Name of the course	kavya smruthi
Class	B.Sc II
Course Code	
CO1	स्नातक छात्र देश के सर्वांगीर्ण विकास मे योगदान देंगे।
CO2	स्नातक देश को विकास के मार्ग में अपनी उद्यमशीलता के साथ ले जाएंगे।
CO3	स्नातक वर्ग गंभीरता से सोचने व प्रभावशाली ढंग से संवाद करने में सक्षम होंगे।
CO4	सामुहिक ढंग से कार्य करने की दक्षता प्राप्त होगी। जिससे वह सफल आजीविका पाने में सक्षम होगा।
CO5	स्नातक वर्ग नैतिक मूल्यों को समझने वाला व संस्कृति का सफल वाहक बनेगा।

Course Outcomes	
Name of the Course	Data Structure
Class	II Sem BSc
Course Code	DCCS2T
CO1	Student will be able to choose appropriate data structure as applied to specified problem definition.
CO2	Ability to describe stack, queue and linked list operation and solve problems based upon different data structure & also write programs.

CO3	Ability to describe Binary Tree and Graph Traversal based upon different data structure & also write programs.
CO4	Ability to analyze algorithms and algorithm correctness and ability to summarize searching and sorting techniques

III Sem BSc

Name of the Course :	ಬಿ.ಎಸ್ಸಿ
Class :	ಬಿ.ಎಸ್ಸಿ ಮೂರನೇ ಸೆಮಿಸ್ಟರ್
Course Code:	ವಿಜ್ಞಾನ ಸೌರಭ -3/ AECKA3.2
CO1	ಮನುಷ್ಯನು ಉದ್ಭವಿಸಿದ ಕೇಂದ್ರವೆಂದು ಭಾವಿಸುವ ಮಾನವತಾವಾದ ಮನುಷ್ಯನಿಗೆ ಅಪಾರ ಗೌರವಕೊಡುತ್ತದೆ. ಆತನ ಬದುಕಿನ ಸಕಲ ಕಿರಿಯಗಳ ಮೂಲ ಮತ್ತು ಭೇದವಿವರಗಳನ್ನು ಅವನಲ್ಲೇ ಅಂದರೆ ಅವನು ಬದುಕುತ್ತಿರುವ ಪರಿಸರದಲ್ಲೇ ಹುಡುಕುತ್ತದೆ.
CO2	ಅಲೆಮಾರಿ ಜೀವನ ಮನುಷ್ಯನಿಗೆ ಪಾಶ್ರ್ವ ಸಂಸಾರದ ಪಳೆಯುಳಿಕೆ, ಪೂರ್ವ ವಾಸನೆ ಎಂದು ತೋರುತ್ತದೆ. ದೇಹಕ್ಕೆ ನಿರ್ಬಂಧವಿದ್ದಾಗಲೂ ಮನುಷ್ಯನು ಅಲೆಮಾರಿಯಾಗುತ್ತದೆ. ದೇಶ, ಜನನೋಡುವ ಕುತೂಹಲ ಪಠಾಸಕ್ತಿ ಕಾರಣ. ಮನುಷ್ಯನ ಆತ್ಮದಲ್ಲೇ ಯಾತೆಯ ಅವಶ್ಯಕತೆಗೆ ಆಧಾರವಿರಬಹುದು.
CO3	ಮನುಷ್ಯನು ವಿಚಾರವಂತರಾಗದೆ ದೇಶವನ್ನು ಕಾಡುತ್ತಿರುವ ಜಲಂತ ಸಮಸ್ಯೆಗಳಿಗೆ ಪರಿಹಾರವಿಲ್ಲ. ಜಾತಿ ಸಮಸ್ಯೆ ಲಿಂಗ ಭೇದ, ಉಳವರು-ಬಡವರು ಹಾಗೂ ಧಾರ್ಮಿಕ ಭಾವನೆಗಳು ವ್ಯಕ್ತಿ ಭೇದದಾಗ ಮಾತ್ರ ಈ ಸಮಸ್ಯೆಗಳಿಗೆ ಪರಿಹಾರ ಹುಡುಕಲು ಸಾಧ್ಯವೆಂಬುದು ಜನಜನಿತವಾದ ಮಾತಾಗಿದೆ.
CO4	ಮನುಷ್ಯನು ಸವಾಲನ್ನು ಎದುರಿಸುವ ಛಲವನ್ನು ರೂಡಿಸಿಕೊಳ್ಳಬೇಕು. ಗೆಲಿಲಿಯೋರವರ ಸಂಶೋಧನೆ, ಮಂಗಳನ ಅಂಗಳಕ್ಕೆ ಭಾರತ ಭವ್ಯ ಪಠೇಶ ಮಾಡಿದ್ದು ಆಕಾಶವಾಣಿಯ ಸಂಶೋಧನೆ ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ನಡೆದಿದ್ದು.
CO5	ಮಾನವತೆ ಕಪ್ಪೆ ಅರಬ್ ಟೆಂಟಿನಿಂದ ನೆಲನ್ ಮಂಡೇಲವರೆಗೆ ಬಂದ ದಾರಿ. ದೇಶ ಸುತ್ತುತ್ತೋ ಓದು ಎಂಬ ಪಠಾಸದ ಅನುಭವಗಳು, ಮನುಷ್ಯನನ್ನು ಬುದ್ಧಿಬಿಟ್ಟು ವಿಚಾರಕಾರ್ತಿಯ, ಸವಾಲುಗಳನ್ನು ಎದುರಿಸಿ ಗೆದ್ದು ಹೋದನೀಯರು.

Name of the Course	Generic English
Class	III Sem BCA/BSC
Course Code	AECEN3.3
CO1	Acquired enhanced LSRW skills
CO2	Augmented presentation and analytical skills
CO3	Ability to critically analyse, interpret and appreciate literary texts
CO4	An awareness of social, cultural, religious and ethnic diversities
CO5	Acquired language skills for competitive examinations - UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.

Name of the course	एक और द्रोढाचार्य
Class	B.Sc III
Course Code	33303
CO1	नाट्य विधा के साथ उसके मंचन व प्रदर्शन से छात्र अवगत होता है।
CO2	छात्रों में नैतिक मूल्यों का विकास।
CO3	स्नातक परिस्थितियों को समझने में सक्षम होते हैं।
CO4	पूंजीपति वर्ग का शिक्षा पर पडने वाला प्रभाव।
CO5	तकनीकी शब्दों का ज्ञान।

Name of the Course	Neelakanta Vijaya Champu of Neelakanta Dixita (Prathama Ashwasa) and Science in Sanskrit
Class	3rd Sem B.Sc.,
Course Code	AECSK 3.4
CO1	Students will be introduced A critical study of Champu Literature in Sanskrit.
CO2	Students will learn about the greatness of Heaven
CO3	The students will be able to visualise role models with presentation of stories and relevant subjects and understand the culture.
CO4	The students will be able to learn the value education.
CO5	Students will learn about contributions of ancient works to the modern world.

Name of the Course	Programming in C and Digital Design using Verilog Lab
Class	III Semester B.Sc
Course Code	ELE-CP3
CO1	Illustrate and explain the basic computer concepts and programming principles of C language.
CO2	Develop C programs to demonstrate the applications of derived data types such as arrays, pointers, strings and functions
CO3	Apply the acquired knowledge of digital circuits in different levels of modeling using Verilog HDL.
CO4	Design and verify the functionality of digital circuit/system using test benches. Develop the programs more effectively using directives, Verilog tasks and constructs.

Name of the Course	Programming in C and Digital Design using Verilog
Class	III Semester B.Sc
Course Code	ELE-CT3

CO1	Illustrate and explain the basic computer concepts and programming principles of C language.
CO2	Develop C programs to demonstrate the applications of derived data types such as arrays, pointers, strings and functions
CO3	Apply the acquired knowledge of digital circuits in different levels of modeling using Verilog HDL.
CO4	Design and verify the functionality of digital circuit/system using test benches. Develop the programs more effectively using directives, Verilog tasks and constructs.

Course Outcomes	
Name of the Course	OBJECT ORIENTED PROGRAMMING USING JAVA
Class	III Sem BSc
Course Code	DCCS3T
CO1	Students can understand the use of Java programming language for various programming technologies (understanding)
CO2	Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements (analysis)
CO3	Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem (synthesis)
CO4	Choose an engineering approach to solving problems, starting from the acquired knowledge of programming and knowledge of operating systems. (evaluation)

IV Sem BSc

Name of the Course	Generic English
Class	IV Sem BSC
Course Code	AECEN4.3
CO1	Acquired creative, interpretative and critical thinking
CO2	Skills to communicate confidently and effectively
CO3	Obtained persuasive and creative social media writing

	skills
CO4	Ability to articulate their views with clarity and confidence
CO5	Eligibility to take up jobs such as content writing, journalism and such other jobs with proficiency in English

Name of the Course :	ಬಿ.ಎಸ್ಸಿ
Class :	ಬಿ.ಎಸ್ಸಿನಾಲನೇ ಸೆಮಿಸ್ಟರ್
Course Code:	ವಿಜ್ಞಾನ ಸೌರಭ -4 / AECKA4.2
CO1	ದಮನಿತ ಲೋಕದಲ್ಲಿ ನವದಾನಗಳಲ್ಲಿ ಖೈಷರಾರು ಎಂಬ ಚರ್ಚೆ, ಹೆಣದ ಮೇಲೆ ಬಟ್ಟೆ ಹೊದಿಸಲು ಬಟ್ಟೆ ತರಲು ಹಣವಿಲ್ಲದೆ ಪರದಾಡುವ ಸಿತ್ತಿ ಹಾಗೂ ಪೌರಾಣಿಕ ಪಾತ್ರಕಲವ್ಯ ಮೇಲರ್ಗದವರಿಂದ ತುಳಿತಕೊಳ್ಳಗಾದ ರೀತಿ.
CO2	ಸಹಿಷ್ಣುತೆಯಲ್ಲಿ ಬಹು ಉಪಯೋಗಿ ಬಿದಿರು ಎಲ್ಲರನ್ನೂ ಸಮಾನವಾಗಿ ಕಾಣುವ ರೀತಿ, ಧರ್ಮಕಿರುವ ಸಾಮಾಜಿಕ ಜವಾಬ್ದಾರ್ಗಳು, ಶಾಪ ವಿಮೋಚನೆಯ ಸರ್ಪದ ಚರ್ಚೆಗಳು.
CO3	ಆಧುನಿಕ ಯುಗದಲ್ಲಿ ಮಧ್ಯಮ ವರ್ಗದ ಶ್ರೀಸಾಮಾನ್ಯನ ಬದುಕು ಏನಾಗುತ್ತಿದ್ದೆ ಎಂಬುದಕ್ಕೆ ಮೊಸರಿನ ಮಂಗಮನ್ ಪಾತ್ರಚಿತ್ರಣ, ಮಧ್ಯಮ ವರ್ಗದ ಉದ್ಯೋಗಸರ್ರು ಮನೆಯಿಂದ ಮನೆಗೆ ಸಂಸಾರ ಬದಲಾವಣೆ, ವಿಚಾರವಂತರ ಮೇಲೆ ಚಂದಗುತ್ತಿ ಜಾತಿಯಲ್ಲಿ ನಡೆದ ಕೌರ್ಯ.
CO4	ಪುರಾಣಗಳಲ್ಲಿ ಭೂಮಿಯನ್ನು ನೋಡಿದ ರೀತಿ, ವಿಜ್ಞಾನಿ ಮೇರಿ ಕೂಲಿಯ ಜೀವನ ಚಿತ್ರಣ, ಕರ್ನಾಟಕದಲ್ಲಿ ಅಂತರಜಲ ಕುರಿತ ಅಧ್ಯಯನಗಳು.
CO5	ದಮನಿತ ಲೋಕದ ಚಿತ್ರಣ, ವಿವಿಧ ಘಟ್ಟದಲ್ಲಿ ಸಹಿಷ್ಣುತೆಯ ಚರ್ಚೆಗಳು, ಆಧುನಿಕ ಯುಗದಲ್ಲಿ ಶ್ರೀಸಾಮಾನ್ಯನ ಬದುಕು ದುಸ್ಮರಗೊಳ್ಳುತ್ತಿರುವ ರೀತಿ ಹಾಗೂ ಸಂಕೀರ್ಣವಾಗಿರುವ ಭೂಮಿ, ವಿಜ್ಞಾನಿಯ ಬದುಕು ಹಾಗೂ ಅಂತರ್ ಜಲ ಅಧ್ಯಯನಗಳು.

Name of the course	Daud(Drama)
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Class	B.Sc IV
Course Code	33403
CO1	छात्रों में नैतिक मूल्यों का विकास।
CO2	स्नातक परिस्थितियों को समझने में सक्षम होते हैं।
CO3	पूँजीपति वर्ग का शिक्षा पर पडने वाला प्रभाव।
CO4	तकनीकी शब्दों का ज्ञान।
CO5	स्नातक वर्ग नैतिक मूल्यों को समझने वाला व संस्कृति का सफल वाहक बनेगा।

Name of the Course	Madyama Vyayoga of Bhasa, Dramaturgy and Dramatists
Class	IV Sem B.Sc.,
Course Code	AECSK4.4
CO1	Students will be introduced to Dramatic Literature in Sanskrit Types of Dramas, Knowledge of Natyashastra. Students will learn about dramatists of Sanskrit Literature, style and fame.
CO2	Students will learn about Bhasa's place, time and works and his dramatic skill.
CO3	Students will understand the character and behaviour of Gatotkacha & also learn the depicts of contemporary society & highlights of human values.
CO4	Students will be able to appreciate the emotions expressed, prosody employed, dialogues and other gesters expressed in the drama.
CO5	Students will be introduced to the Concepts of Rasa, Bhava and Abhinaya & theoretical aspects related to the production of the play.

Name of the Course	Electronic Communication I Lab
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Class	IV Semester B.Sc
Course Code	ELE-CP4
CO1	Understand the types of amplifiers-IF Amplifier and study the characteristics of Optical Fibre Communication
CO2	Understand different modulation and demodulation schemes for analog and digital communications
CO3	Analyze and determine the performance of transmitter and receiver circuits
CO4	Understand the multiplexing techniques and Voltage controlled Oscillator
CO5	Study the characteristics of radio receivers , Frequency Multiplier and Frequency Mixer.

Name of the Course	Electronic Communication I
Class	IV Semester B.Sc
Course Code	ELE-CT4
CO1	Know the basic concept of Analog Communication, means and medium of communication
CO2	Understand the principle of Analog and digital modulation.
CO3	Familiar with AM and FM techniques
CO4	Understand the basic concept of Pulse Modulation, Carrier Modulation for digital transmission and able to construct simple pulse modulation.
CO5	Understand the basic concept of Satellite Communication
CO6	Understand the basic concept of Optical Fibre Communication

Course Outcomes	
Name of the Course	Operating Systems
Class	IV Sem BSc
Course Code	CA-CS4T
CO1	Student will learn basic concepts, OSI reference model, TCP / IP, Analog and digital data transmission.

CO2	Student will be able to get flow control techniques.
CO3	Student should be able to learn different Network layer i.e logical addressing, sub netting& routing.
CO4	Student should be able to learn Transport layer function, TCP services .

V Sem BSc

Name of the Course	Visual Programming
Class	V Sem BSC
Course Code	CS5T2
CO1	To learn visual programming basics and its components.
CO2	To make the students familiar with Windows Programming, arrays and functions.
CO3	To cover visual programming skills needed for modern software development with database.
CO4	Learning with ADO data controls and error handling.

Name of the Course	Mathematics V
Class	V Sem B.Sc
Course Code	
CO1	Student should be able to Learn fundamentals in Linear Algebra
CO2	Student should be able to Solve the calculus of variations using integral methods
CO3	Student should be able to the applications in Variations
CO4	Student should be able learn finite differences and numerical methods of Simpson's 1/3 rule etc

Name of the Course	Mathematics VI
Class	V Sem B.Sc
Course Code	
CO1	Student should be able to Learn Scalar and Vector fields
CO2	Student should be able to understand the difference between solenoidal and irrotational vectors
CO3	Student should be able understand double and thriple integrals with examples
CO4	Student should be able apply integral theorems in practical

Name of the Course	Communication I
Class	V Semester B.Sc
Course Code	EL-501T
CO1	Understand noise as a random process and its effect on communication receivers. Understand the concept of radiation and types of wave propagation
CO2	Understand different modulation and demodulation schemes for analog communications.
CO3	Analyze and determine the performance of transmitter and receiver circuits
CO4	Characteristics of antennas and antenna parameters

CO5	Understand the building blocks used in radio and television systems
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Name of the Course	Computer Networks
Class	V Sem BSc
Course Code	BCCS5T
CO1	Students should be able to understand the use of client/server architecture, inter process communication and to explain the basic communication protocols.
CO2	Students should be able to gain knowledge of transmission media and Multiplexing.
CO3	Students should be able to understand File transfer protocol, Point to Point Protocol
CO4	Students should be able to Learn LAN Structure and their functions.
CO5	Students should be able to understand Network Standards, Bridges and routing algorithms .

Name of the Course	Microprocessor and Electronic Instrumentation Lab
Class	V Semester B.Sc
Course Code	EL-502P
CO1	Introduction to the Architecture and programming of the microprocessor 8085. Knowledge of 8085 instruction set and ability to utilize it in assembly language programming.
CO2	Understand real mode Memory addressing and ability to interface various devices to the microprocessor.
CO3	Provide practical hands-on experience with microprocessor applications and interfacing techniques.

Name of the Course	Microprocessor and Electronic Instrumentation
Class	V Semester B.Sc
Course Code	EL-502T
CO1	Introduction to the Architecture and programming of the microprocessor 8085. Knowledge of 8085 instruction set and ability to utilize it in assembly language programming.
CO2	Understand real mode Memory addressing and ability to interface various devices to the microprocessor.
CO3	Provide practical hands-on experience with microprocessor applications and interfacing techniques.
CO4	Measure various electrical parameters with accuracy, precision, resolution.
CO5	Select appropriate passive or active transducers for measurement of physical phenomenon. Learn several signals that can be measured from the human body. Specific examples include temperature, electrical, and pressure signals.

Name of the Course	Web Programming (TH & L)
Class	VI Sem B.Sc
Course Code	CS6T1
CO1	Understand the basics of Web Programming concepts, XHTML, Hyperlinks etc
CO2	Understand, analyze and create web pages using HTML, DHTML and Cascading Styles sheets, Box Model
CO3	Understand the basics of JavaScript, Data types, Functions, Arrays.
CO4	Understand, analyze and build interactive web applications, DOM

CO5	To build dynamic web pages with validation using JavaScript objects and by applying different event-handling mechanisms. Understand, Analyse and create XML documents and XML Schema
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Name of the Course	Mathematics VII
Class	VI Sem B.Sc
Course Code	
CO1	Student should be able understand cylindrical and spherical systems
CO2	Student should be able to learn the total differentials equations
CO3	Student should be able learn equations of first order
CO4	Student should be able understand one & two dimensional equations
CO5	Student should be able solve one & two dimensional equations using fourier series

Name of the Course	Mathematics VIII
Class	VI Sem B.Sc
Course Code	
CO1	Student should be able understand numerical solutions of non-homogeneous system of linear algebraic equations
CO2	Student should be understand first order linear ODE
CO3	Student should be able apply Cauchy generalised formula
CO4	Student should be able understand the bilinear transformations

Name of the Course	Communication II Lab
Class	VI Semester B.Sc
Course Code	EL-601P

CO1	Evaluate the performance of Pulse modulation techniques and digital communication system
CO2	Determine the mid band gain of individual stages and overall gain of two stage RC coupled amplifier
CO3	Identify and characterize different components of an Optical Fibre Communication.
CO4	Perform arithmetic operations using microcontroller kit

Name of the Course	Communication II
Class	VI Semester B.Sc
Course Code	EL-601T
CO1	Evaluate the performance of Pulse modulation techniques and digital communication system
CO2	Evaluate the Radar performance and Radar range Equation and selecting appropriate criterion for detecting a target in radar System
CO3	Understand the orbital and functional principles and select an appropriate modulation, multiplexing, coding and multiple access schemes for a given satellite communication link.
CO4	Identify and characterize different components of an Optical Fibre Communication.
CO5	Understand the evolution of cellular communication systems up to and beyond 3G

Name of the Course	Microcontrollers
Class	VI Semester B.Sc
Course Code	EL-602T
CO1	Understand what is a microcontroller, micro-computer, embedded system, Difference between microprocessor and microcontrollers.
CO2	Understand different components of a micro-controller and their interactions.
CO3	Understand key concepts of embedded systems like IO,timers, interrupts, interaction with peripheral devices.
CO4	Use assembly languages in developing programs for the use of microcontrollers.
CO5	Use the C programming language in developing more complicate program for the use of microcontrollers.

Name of the Course	Electronics project
Class	VI Semester B.Sc
Course Code	EL-602P
CO1	Students will be able to practice acquired knowledge within the chosen area of technology for project development.
CO2	Identify, discuss and justify the technical aspects of the chosen project with a comprehensive and systematic approach.
CO3	Reproduce, improve and refine technical aspects for engineering projects.
CO4	Work as an individual or in a team in development of technical projects.
CO5	Communicate and report effectively project related activities and findings