	Objectives of Programme/Course	Employability of Programme/Course	Attainment of
	Outcome		Programme/Cours
			e Outcome
Programme:	This program intends to ensure that:	The Department of computer science	This programme
	1. Students effectively acquire	equips its students with the skills and	uses a
THREE YEARS	their knowledge of	knowledge they need to pursue diverse,	combination of
UNDER-	computing principals and	exciting and rewarding graduate careers.	traditional
GRADUATE	mathematical theory to	The students of the department of	classroom
COURSE	develop sustainable	Computer Science have been able to gain	teaching, ICT
IN	solutions to current and	employment in a wide range of roles	classes, guided
Computer Science	future computing problems.	after graduation. Although the majority	reading and
(HONOURS)	2. Developing and	goes on to walk in the information and	students are
	implementing solution	communication or the financial sector,	provided with
	based system and/or	graduates are highly employable.	well equipped
	processes that address		laboratory for
	issues and /or improve		experimental
	existing software based		purpose.
	industry.		
	3. Student will be able to		
	complete successfully be		
	able to program small to		
	mid size program on their		
	own. And will be able to		
	use appropriate system		
	design notations and apply		
	system engineering process		
	in order to design, plan, and		
	implement software system.		
Course		UG SEM-I (HONS.)	
UG-COMPUTER	If a student learns C programming	These are the different types of jobs	
SCIENCE (Hons.)-	first, it will help him to learn any	which will help students to make a career	
SH/CSC/101/C-1	modern programming language as	in C/C++ :-	
PROGRAMMING	well. As learning C help to	1. Junior Programmer.	
FUNDAMENTALS	understand a lot of underlying	2. Software Developer	
USING C/C++	architecture of operating system.	This post would entail students to create	
	Like, pointers , working	and market students' own software. It is	
	with memory locations etc.	a respectable position that can be bagged	
		by a person from a person who	
	C++ plays quite an integral role in	completed his degree from a technical or	
	modern times as many	non-technical background.	
	contemporary systems such as	3. Quality Analyst	
	operating systems, web browsers,	This post would entail students to	
	databases, etc. have C++ code in at	analyze each and every aspect of the	
	least some part of their codebase.	designated software designed by a	
	Moreover, C++ is quite useful in	software developer.	

	performance critical areas because of its speed.	 4. Game Programmer:- This post would entail student to fulfill the criterion either of a software engineer or computer scientist who essentially develops codebases for gaming relevant software, such as game development tools. 5. UNIX Shell Scripting:- The descent of UNIX OS was because of the C/C++ programming language. There are a lot of opportunities in this field if students are an expert in C and C++ as it only requires to be proficient in one language, that is, the C programming language. 	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/102/C-2 COMPUTER SYSTEM ARCHITECTURE	Students would be able to understand the specification describing how hardware and software technologies interact to create a computer platform or system		
Course		UG SEM-II (HONS.)	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/201/C-3 PROGRAMMING IN JAVA	Students in a Java programming class will learn about the software's interface and how to read complex data create applications and graphic user interfaces. Java is programming language related to C++ that helps the programmer create an interface for computer users. In such a class, students might learn to create applications that can run on many different platforms, such as Microsoft Windows or Mac OS. Since, a student learns to master Java basics. This means students could create, write graphical user interface.	 As a career for JAVA programmers, anyone can consider following job roles. Web developer Application developer EJB programmer Software developer Tester Graphic designer A professional teacher in Java 	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/202/C-4 DISCRETE STRUCTURES	Students would be able to understand the concepts and notations from discrete mathematics which are useful in studying and describing objects and problems in branches of computer science, such as computer algorithms, programmi		

	ng languages, cryptography, automated theorem proving, and		
	software development		
Course		UG SEM-III (HONS.)	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/301/C-5 DATA STRUCTURES	Data structures deal with structuring or managing data. Computer science is all about storing and computing from a given data. So studying data structures help the students to deal with different ways of arranging, processing and storing data.		
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/302/C-6 OPERATING SYSTEMS	Knowledge of Operating System will be very useful if students want to pursue career in CS. Operating System is the only thing that makes students bare metal (desktop, tablet, phone, etc) run, be usable to work with.	 As a career for students of operating system, anyone can consider following job roles. A professional teacher in operating system. A system administrator. Linux Administrator. 	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/303/C-7 COMPUTER NETWORKS	Making the students aware of the Computer Network technologies.	 As a career anyone can consider the following job roles: Network Administrator Network Engineer Network Analyst Information System Administrator Network Technician Computer Networking Instructor 	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/305/SEC-1 PROGRAMMING IN PYTHON	Python is an exciting and powerful high level language with the right combination of performance and features that makes programming fun and easy. With learning this programming language student would able to develop software back end part and may apply this programming language with other subjects for their easy learning process.	Students will be able to make various projects and be able to get job in various fields in the software Industry.	
Course		UG SEM-IV (HONS.)	
UG-COMPUTER SCIENCE (Hons.)- SH/CSC/401/C-8 ANALYSIS AND DESIGN OF ALGORITHMS	This module aims to help the students to develop their analytical and problem-solving skills, particularly concerning thinking algorithmically.		

UG-COMPUTER	Studying the subject software	As a career for students of software	
SCIENCE (Hons.)-	engineering, provides a student with	engineering, anyone can consider	
SH/CSC/402/C-9	knowledge regarding the software	following job roles.	
SOFTWARE	development process and how to	• Applications developer.	
ENGINEERING	apply this as an engineer.	• Software Engineer	
		Software tester	
UG-COMPUTER	The DBMS is perhaps most useful	Students will be able to be employed by	
SCIENCE (Hons.)-	for providing a centralized view of	the IT sector.	
SH/CSC/403/C-10	data that can be access by multiple		
DATABASE	users, from multiple locations, in a		
MANAGEMENT	controlled manner. The student will		
SYSTEMS	be able to relate concepts such as		
	SOL, DBMS, RDBMS and ER		
	Diagram and how to normalize the		
	complicated data from this region.		
UG-COMPUTER	This module aims to help the	Students will be able to be employed by	
SCIENCE (Hons.)-	students to develop and maintain	the IT sector as a web developer.	
SH/CSC/405/SEC-2	web pages.		
HTML			
PROGRAMMING			
Course		UG SEM-V (HONS.)	I
UG-COMPLITER	Internet Technologies can be great	As a career for students of internet	
SCIENCE (Hons)-	for creative types because it allows	technologies anyone can consider	
SH/CSC/501/C-11	students to create something both	following job roles:	
INTERNET	beautiful and functional all from	Cloud architect	
TECHNOLOGIES	their computer. If student are	Web developer	
	looking for a way to use your	 Information technology vendor 	
	artistic side, web design is a great	manager	
	way to do it. In today's world	inanager.	
	learning how to design websites can		
	be an incredibly useful skill.		
UG-COMPUTER	Studying the theory of computation,		
SCIENCE (Hons.)-	the students will be able		
SH/CSC/502/C-12	to efficiently solve problems based		
THEORY OF	on a model of computation, using		
COMPUTATIONS	an algorithm and will acquire the		
	knowledge about automata theory,		
	languages, computability theory,		
	and computational complexity		
	theory.		
UG-COMPUTER	The students would be able to solve		
SCIENCE (Hons.)-	problems that may otherwise be not		
SH/CSC/503/DSE-1	practically solvable in real life.		
NUMERICAL	using some		
METHODS	computational algorithms and also		
	learn how the computer would solve		

	a problem.		
UG-COMPUTER	This module aims to help the	As a career the students can have jobs in	
SCIENCE (Hons.)-	students to acquire knowledge about	the Electronics' Industry	
SH/CSC/504/DSE-2	the Microprocessors, which are the		
MICROPROCESSO	integrated electrical circuits that are		
R	capable of carrying out the		
	instructions of a computer software		
	application or program.		
Course		UG SEM-VI (HONS.)	I
UG-COMPUTER	Students will learn about Artificial	In recent years, careers in artificial	
SCIENCE (Hons.)-	intelligence (AI), which makes it	intelligence (AI) have grown	
SH/CSC/601/C-13	possible for machines to learn from	exponentially to meet the demands of	
ARTIFICIAL	experience, adjust to new inputs and	digitally transformed industries.	
INTELLIGENCE	perform human-like tasks. Since,	In this sector jobs are:	
	area of computer science that		
	emphasizes the creation	1. Machine Learning Engineer.	
	of intelligent machines that work	2. Data Scientist	
	and reacts like humans.	3. Business Intelligence Developer	
		4. Research Scientist	
		5. Big Data Engineer	
UG-COMPUTER	Students would be able to generate	Anyone can find a job as computer	
SCIENCE (Hons.)-	images with the aid of computers	graphics designer	
SH/CSC/602/C-14			
COMPUTER			
GRAPHICS			
UG-COMPUTER	The information security field	As a career anyone can consider the	
SCIENCE (Hons.)-	presents unique challenges because	following job roles:	
SH/CSC/603/DSE-3	the world faces increasingly	 Information security analyst 	
INFORMATION	sophisticated cyber security threats	 Data security analyst 	
SECURITY	even as our reliance on networked	• Network security analyst	
	computer systems continues to	• Cyber security analyst	
	knowledge about the foundational		
	and applied aspects of cryptography.		
	networks, systems and software		
	security, and policies and strategies		
	for information security		
UG-COMPUTER	Students would be able to do some	Students will be able to make various	
SCIENCE (Hons.)-	real world projects	projects and be able to get job in various	
SH/CSC/604/DSE-4		fields in the software Industry.	
PROJECT WORK			
Due au	This are seen into a later seen of the	The Department of a superior	This area war
Programme:	I have a second	The Department of computer science	inis programme
	1. Students effectively acquire	equips its students with the skills and	uses a
I HKEE YEAKS	their knowledge of	knowledge they need to pursue diverse,	combination of
UNDEK-	computing principals and	exciting and rewarding graduate careers.	traditional
GRADUATE	mathematical theory to	The students of the department of	classroom

COURSE	develop sustainable	Computer Science have been able to gain	teaching ICT
	aclutions to current and	employment in a wide range of roles	alassas guidad
Computer Science	future computing problems	ofter graduation. Although the majority	reading and
(DDOCDAMME)	2 Developing and	and graduation. Although the information and	atudanta ara
(PROGRAMINE)	2. Developing and	goes on to walk in the information and	students are
		communication of the financial sector,	provided with
	based system and/or	graduates are nightly employable.	well equipped
	processes that address		laboratory for
	issues and /or improve		experimental
	existing software based		purpose.
	industry.		
	3. Student will be able to		
	complete successfully be		
	able to program small to		
	mid size program on their		
	own. And will be able to		
	use appropriate system		
	design notations and apply		
	system engineering process		
	in order to design, plan, and		
	implement software system.		
Course	U	G SEM-I (PROGRAMME)	1
UG- COMPUTER	Students would learn about the	Students will be able to be employed by	
SCIENCE	computer fundamentals and Python	the IT sector.	
(Programme) –	programming language		
SP/CSC/101/C-1A			
PROBLEM			
SOLVING USING			
COMPUTERS			
Course	UG	G SEM-II (PROGRAMME)	
UG- COMPUTER	The DBMS is perhaps most useful	Students will be able to be employed by	
SCIENCE	for providing a centralized view of	the IT sector.	
(Programme) –	data that can be access by multiple		
SP/CSC/201/C-1B	users, from multiple locations, in a		
DATABASE	controlled manner. The student will		
MANAGEMENT	be able to relate concepts such as		
SYSTEMS	SQL, DBMS, RDBMS and ER		
	Diagram and how to normalize the		
	complicated data from this region.		
Course	UG	SEM-III (PROGRAMME)	
UG- COMPUTER	Knowledge of Operating System	As a career for students of operating	
SCIENCE	will be very useful if students want	system, anyone can consider following	
(Programme) –	to pursue career in CS. Operating	job roles.	
SP/CSC/301/C-1C	System is the only thing that makes	• A professional teacher in	
OPERATING	students bare metal (desktop, tablet,	operating system.	
SYSTEMS	phone, etc) run, be usable to work	• A system administrator.	
	with.	Linux Administrator.	

UG- COMPUTER	Students would be able to create or	Anyone can get a job as a data entry	
SCIENCE	edit word files, excel files and can	operator.	
(Programme) –	make power point presentations	•	
SP/CSC/304/SEC-1			
OFFICE			
AUTOMATION			
TOOLS			
Course	UG	SEM-IV (PROGRAMME)	
UG- COMPUTER	Students would be able to		
SCIENCE	understand the specification		
(Programme) –	describing how hardware and		
SP/CSC/401/C-1D	software technologies interact to		
COMPUTER	create a computer platform		
SYSTEM	or system		
ARCHITECTURE			
UG- COMPUTER	This module aims to help the	Students will be able to be employed by	
SCIENCE	students to develop and maintain	the IT sector as a web developer.	
(Programme) –	web pages.	*	
SP/CSC/404/SEC-2			
HTML			
PROGRAMMING			
Course	UC	G SEM-V (PROGRAMME)	
UG- COMPUTER	Internet Technologies can be great	As a career for students of internet	
SCIENCE	for creative types because it allows	technologies anyone can consider	
(Programme) –	students to create something both	following job roles:	
SP/CSC/501/DSE-	beautiful and functional all from	Cloud architect	
1A	their computer. If student are	• Web developer	
INTERNET	looking for a way to use your	 Web developer. Information tasknology yandar 	
TECHNOLOGIES	artistic side web design is a great	Information technology vendor	
TLEINVOLOOILS	way to do it. In today's world	manager.	
	learning how to design websites can		
	be an incredibly useful skill		
UG- COMPUTER	Students would be able to create or	Students will be able to be employed by	
SCIENCE	update databases using SOL/PL-	the IT sector	
(Programme) –	SOL		
SP/CSC/504/SFC-3	5QL		
MYSOL			
PROGRAMMING			
(USING SOL/PL -			
SOL)			
Course	UC	SEM-VI (PROGRAMME)	
UG- COMPUTER	Students would be able to do some		
SCIENCE	real world projects		
(Programme) _	Tear world projects		
SP/CSC/601/DSE-			
Course UG- COMPUTER SCIENCE (Programme) – SP/CSC/601/DSE-	UG Students would be able to do some real world projects	SEM-VI (PROGRAMME)	

PROJECT WORK			
TROJECT WORK			
UG- COMPLITER	Students could develop GUI	Anyone can get a job as an software	
SCIENCE	window applications easily using	application developer	
(Programme) _	VB	application developer.	
(110gramme) = SP/CSC/604/SEC 4			
DDOCD AMMING			
IN VISUAL BASIC			
IN VISUAL DASIC			
	This program intends to ensure that:	The Department of computer science	This programme
	1 Students effectively acquire	equips its students with the skills and	
	their knowledge of	knowledge they need to pursue diverse	combination of
	computing principals and	exciting and rewarding graduate careers	traditional
Programme	mathematical theory to	The students of department of computer	classroom
i rogramme.	develop sustainable	science have been able to gain	teaching ICT
GF (Generic	solutions to current and	employment in a wide range of roles	classes guided
Flective) Computer	future computing problems	after graduation. Although the majority	reading and
Solongo:	2 Developing and	goes on to walk in the information and	students are
for other Honours	2. Developing and	goes on to wark in the information and	students are
outer nonours	has a device and/or	communication of the final sector,	provided with
subjects' students	based system and/or	graduates are fightly employable.	ven equipped
(except Computer	processes that address		laboratory for
Science Honours),	issues and /or improve		experimental
to be taken as	existing information based		purpose
elective paper	industry.		
	3. The students could be able		
	to apply computer based		
	knowledge into their		
	concern (Hons) subject field		
Course		UG SEM-I (GE)	
UG-COMPUTER	Students would learn about the	Students will be able to be employed by	
SCIENCE (GE)-	computer fundamentals and C	the IT sector.	
SH/CSC/103/GE-1	programming language		
INTRODUCTION			
ТО			
PROGRAMMING			
Course		UG SEM-II (GE)	
UG-COMPUTER	The DBMS is perhaps most useful	Students will be able to be employed by	
SCIENCE (GE)-	for providing a centralized view of	the IT sector.	
SH/CSC/203/GE-2	data that can be access by multiple		
INTRODUCTION	users, from multiple locations, in a		
TO DATABASE	controlled manner. The student will		
SYSTEMS	be able to relate concepts such as		

	SQL, DBMS, RDBMS and ER Diagram and how to normalize the complicated data from this region.		
Course		UG SEM-III (GE)	
UG-COMPUTER SCIENCE (GE)- SH/CSC/304/GE-3 COMPUTER NETWORK AND INTERNET TECHNOLOGIES	Making the students aware of the Computer Network and internet technologies.	As a career anyone can consider the following job roles: Network Administrator Network Engineer Network Analyst Information System Administrator Network Technician Computer Networking Instructor	
UG-COMPUTER SCIENCE- SH/CSC/404/GE-4 PROGRAMMING IN PYTHON	Python is an exciting and powerful high level language with the right combination of performance and features that makes programming fun and easy. With learning this programming language student would able to develop software back end part and may apply this programming language with other subjects for their easy learning process.	Students will be able to make various projects and be able to get job in various fields.	