





(Affiliated to Bharathiar University, Coimbatore, Re-accredited with "A" Grade by NAAC) Shri Gambhirmal Bafna Nagar, Malumachampatti, Coimbatore - 641 050. Tamil Nadu, India.

## | Program Educational Objectives (PEOs) | Programme Specific Outcomes (PSOs) | Programme Outcomes (POs)

File Description (Dept Wise)	Documents
B.Com	
B.Com (CA)	
B.Com (PA)	
B.Com (IT)	
B.Com (E-Com)	
B.Com (B&I)	
B.Com (CS)	
B.Com (Finance)	
BBA	
BCA	
B.Sc., (CS)	
B.Sc., (IT)	
B.Sc., (CT)	

B.Sc., (AI & ML)	
B.Sc., (CS & DA)	
B.Sc., (BT)	
B.Sc., (MB)	
B.Sc., (Chemistry)	
B.Sc., (Physics)	
B.Sc., (Maths CA)	
B.A., (Eng)	
M.Sc., (CS)	
M.Sc., (BT)	
M.Sc., (MB)	
MSW	
M.A., (Eng)	
M.Com	
M.Com (CA)	
MBA	



## **Department of B.Com**

Program Educational Objectives (PEOs)		
The <b>B.CC</b>	The <b>B.COM</b> program describe accomplishments that graduates are expected to attain within	
five to sev	five to seven years after graduation	
PEO1	Students will able to understand the concepts of commerce.	
PEO2	Programme aims to develop comprehensive professional skills which are required	
1202	for commerce graduates.	
PEO3	Students will develop an understanding of various commerce functions such as	
1205	finance, accounting, financial analysis, project evaluation, and cost accounting	
PEO4	Students will be able to prove the proficiency with the ability to engage exams	
	like C.A, C.S and CMA	
PEO5	Students can do commerce-oriented research and consequence of this, they can	
	become Professors in Colleges and Universities	

Program Specific Outcomes (PSOs)		
After the	After the successful completion of B.COM program, the students are expected to	
PSO1	To provide strong base on the course relevant to the area of commerce which	
1301	helps to choose their career	
PSO2	To enhance knowledge and skills among students which built confident to	
1302	identify their career opportunities in multiple dimensions.	
	Nurture the students in intellectual, personal, interpersonal and social skills with a	
PSO3	focus on relevant professional career particularly, to maximize professional	
	growth.	
PSO4	Empower the students with necessary competencies and decision-making skills to	
	foster the innovative thinking to become an entrepreneur	
PSO5	Strengthen the students to become expert in the field of communication with	
	ethical consciousness.	

Program	Program Outcomes (POs)	
On succe	On successful completion of the B.COM program	
PO1	Build the wide range of knowledge in the areas of accounting concepts and techniques to meet the current and future requirement of the industry.	
PO2	Develop the strong knowledge in the areas such as finance, taxation and laws relating to commerce helps to relate the conceptual and analytical skills in the field of auditing, finance etc.	
PO3	Inculcate the students to nurture their skills in personal, interpersonal, intellectual and others skills to develop their professional career and growth.	
PO4	Disseminate students to develop decision making and problem solving skills to undertake their own venture as a feasible career option.	
PO5	Orient and motive the students to develop the needed knowledge in business and academics to develop their employability	

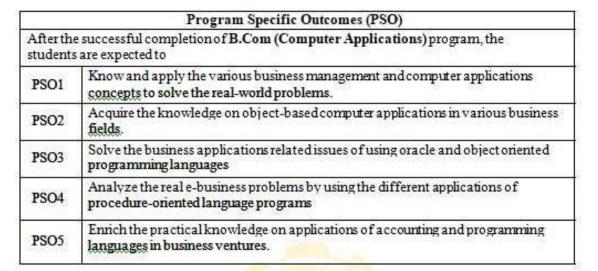




## **Department of B.Com CA**



Program Educational Objectives (PEOs)	
The <b>B.Com (Computer Applications)</b> program describe accomplishments that graduates are expected to attain within five to seven years after graduation	
To Provide students with specific knowledge and skills relevant to their disciplines and careers.	
To make the students acquainted with technical and practical concepts for understanding the real business problems using different programming languages.	
To train the students on practical business applications using high level programming languages in real world.	
To make the students aware about the useful applications of different computer languages that solve real world problems.	
To enhance the knowledge on visual based programming language and object- oriented language in different business applications using various design principles portraying the concepts of computer applications in business activities.	







	Program Outcomes (POs)
After the successful completion of <b>B.Com (Computer Applications)</b> program, the students are expected to	
PO1	Develop the accounting, finance, banking, Insurance, marketing as well as the computer application knowledge to the students.
PO2	Create awareness of the students about Business law, Tax Law and legislations related to business and computer applications
PO3	Get the training to learn how to develop successful computer programs to solve the business problems for increasing the productivity of the e-business.
PO4	Obtain the practical application exposure on ms-office and oracle software.
PO5	Apply object oriented or non-object oriented techniques to solve business computing problems which make students a good programmer.







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# **Department of BCOM PA**

SNMV College of Arts and Science 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Specific Outcomes (PSOs) After the successful completion of B.Com. (Professional Accounting) program, hestudents are expected to	
P <mark>SO</mark> 1	complete the intermediate level in professional programmes like CA, ICWA and ACS
PSO2	Provide several opportunities to engage with the accounting professionals
P <mark>SO</mark> 3	Implement creativity and problem solving skills in various real life time problems.
PSO4	Acquire several opportunities to engage with the accounting professionals and learn from their experiences.
PSO5	Learn relevant managerial accounting skills with emphasis on application of both quantitative and qualitative knowledge to their future careers.

Program	n Outcomes (POs)
On successful completion of the B.Com (Professional Accounting) program	
PO1	Ability to apply ethical principles and responsible practices during their profession
PO2	Ability to engage in independent and lifelong learning for continued professional development.
PO3	Become qualified professionals in the field of accounting and auditing.
PO4	Demonstrate professional ethics in legal aspects of business
PO5	Ability to apply ethical principles and responsible practices during their profession

Program	Program Educational Objectives (PEOs)	
The <b>B.Com (Professional Accounting)</b> program describe accomplishments that graduates are expected to attain within five to seven years after graduation		
PEO1	Student will possess a deep and broad understanding of Accounting principles and practices as evidenced by professional employment, continued professional development and graduate study in professional fields.	
PEO2	to demonstrate professional expertise in financial planning, analysis, control, Decision support and professional ethics with the employees	
PEO3	Graduates will be responsive to professional and societal contexts, committed to ethical concerns, effective and contributing member of the community.	
PEO4	Able to work in a company where the business is continuously expanding and growth prospects are good.	
PEO5	Graduate will be flexible, adaptable, independent and collaborative with leadership qualities, so as to sustain oneself working in multidisciplinary team	



# **Department of B.COM IT**

## **Program Educational Objectives (PEOs)**

The **B.COM IT** program describes the accomplishments that graduates are expected to attain within five to seven years after graduation

PEO1	Students will be able to understand the concepts of Commerce.
PEO2	Programme aims to develop comprehensive professional skills which are required
	for Commerce graduates.
PEO3	Students will acquire necessary skills to work in computerized accounting regime
PEO4	Students will be able to get trained in relevant computerized accounting packages
PEO5	Students can do commerce with necessary IT Skills towards research and
	consequence of this, they can become Professors in Colleges or become highly
	valued Industrial Experts in Digital Accounting

Program	Specific Outcomes (PSOs)
After the	successful completion of B.COM IT program, the students are expected to
PSO1	To replicate the concepts, principles and theories in the field of Commerce, Accounting, Finance, Law and Taxation with necessary IT Skills which promote the growth of their professional career and entrepreneurship.
PSO2	To infuse skills relating to computerized accounting packages to enable students in better career placements.
PSO3	Nurture the students in intellectual, personal, interpersonal and social skills with a focus on relevant professional career particularly, to maximize professional growth.
PSO4	Empower the students with necessary IT-based accounting skills forprospective employment across many industries.
PSO5	Strengthen the students to become expert in the field of Information technology with ethical consciousness.

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2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)		
On succe	On successful completion of the B.COM IT program	
PO1	Develop a broad range of knowledge in the computerized accounting field based on various accounting concepts and practices	
PO2	Build a strong foundation in the areas of accounting, banking, tax, programming and computerized accounting packages	
PO3	Nurture the students in intellectual, personal, interpersonal and societal skills with a focus on relevant professional career to maximize professional growth.	
PO4	Empower students with necessary programming and computer skills for better and advanced career opportunities aiming with focus on accounting and for all Commercial activities	
PO5	Train and develop students in information technology sector with great orientation on ethical aspects, security system and quality.	



## **Department of B.COM E-COM**

### **Program Educational Objectives (PEOs)**

The B.Com (E-commerce) program describes the accomplishments that graduates are		
expected to a	expected to attain within five to seven years after graduation	
	To incorporate the knowledge of commerce and e-commerce well-	
PEO1	designed areas that combine hands-on projects and applications that is	
	vital for creating Successful and competitive firms in order to develop a	
	holistic organizational outlook.	
	To make students acquainted with technical, managerial and	
PEO2	accounting concepts for understanding information systems to	
	develop business processes and take managerial decisions there by	
	gaining experience for developing basic Internet Applications.	
	To learn the business models as an integral part for understanding the	
PEO3	practical aspects of Ecommerce applications that can be helpful for	
	building digital based Applications to provide corporate as well as	
	business solutions.	
	To discuss the concepts of e-commerce up-coming technologies in the	
PEO4	wireless arena of business applications based on industry standards for the future trends in modern e-business application.	
	To enhance the knowledge on visual based programming language	
PEO5	and object- oriented language in different business applications using	
	various design principles portraying the concepts of e-commerce	
	applications in business Activities.	

	Program Specific Outcomes (PSOs)	
After the successful completion of B. Com (E-commerce) program, the students are expected to		
PSO1	Know and apply the various accounting concepts to solve the accounting related business transactions.	
PSO2	Acquire the knowledge on the e-commerce applications in various arenas of business.	
PSO3	Solve the web applications related issues of e-business using web design tools, techniques and methods.	
PSO4	Analyze the real e-business problems by using the different applications and procedures oriented with language programs	
PSO5	Enrich the practical knowledge on initiating new e-business ventures.	

SNMV College of Arts and Science Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program	Program Outcomes (POs)	
On succ	On successful completion of the B.COM program	
PO1	Build the wide range of knowledge in the areas of accounting concepts andtechniques to meet the current and future requirement of the industry.	
PO2	Develop the strong knowledge in the areas such as finance, taxation and laws relating to commerce helps to relate the conceptual and analytical skills in the field f auditing, finance etc.	
PO3	Inculcate the students to nurture their skills in personal, interpersonal, intellectual others skills to develop their professional career and growth.	
PO4	Disseminate students to develop decision making and problem- solving skills toundertake their own venture as a feasible career option.	
PO5	Orient and motive the students to develop the needed knowledge in business and academics to develop their employability	



## **Department of Banking and Insurance**

### **Program Educational Objectives (PEOs)**

The <b>B.</b> COM B&I program describe accomplishments that graduates are expected to attain	
within five to seven years after graduation	
PEO1	To take up a higher-level job in banking and insurance sector
PEO2	Get thorough knowledge in the services offered by Banks and Insurance sector
PEO3	Practical exposure in the banking and insurance field helps them to take up a challenging jobs
PEO4	Able to act as a consultant in the areas of banking and insurance
PEO5	Able to develop required software in the ICT era

Program Specific Outcomes (PSO)		
After the	After the successful completion of <b>B.COM B&amp;I</b> program, the students are expected to	
PSO1	Pursue higher education with either Banking or Insurance as specialization	
PSO2	Work as a financial risk manager by undergoing training in the reputed companies	
PSO3	Take a job as an accountant	
PSO4	It helps to attain a better career path	
PSO5	Take up a relevant job	

Program Outcomes (POs)	
After the successful completion of B.COM B&I program, the students are expected to	
PO1	Know the functions and services of Banking industry
PO2	Analyse the policies offered by Insurance industry
PO3	Determine the risk involved in the Insurance
PO4	Update the latest innovations made in Banking and Insurance companies
PO5	Can take up a PG degree



# **Department of B.Com CS**

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Educational Objectives (PEOs)	
The B. S.	c. Computer Science program describe accomplishments that graduates are
expected	to attain within five to seven years after graduation
PEO1	To enrich knowledge in core areas related to the field of computer science and mathematics.
PEO2	To provide opportunities for acquiring in-depth knowledge in Industry 4.0/5.0 tools and techniques and there by design and implement software projects to meet customer's business objectives.
PEO3	To enable graduates to pursue higher education leading to Master and Research Degrees or have a successful career in industries associated with Computer Science or as entrepreneurs
PEO4	To enhance communicative skills and inculcate team spirit through professional activities, skills in handling complex problems in data analysis and research project to make them a better team player.
PEO5	To embed human values and professional ethics in the young minds and contribute towards nation building.
PEO9	To develop project

Program	Specific Outcomes (PSOs)
After the	successful completion of B.Sc. Computer Science program, the students are
expected	to
PSO1	Impart the fundamental principles and methods of Computer Science to a wide range of applications.
PSO2	Develop and deploy applications of varying complexity using the acquired knowledge in various programming languages, data structures and algorithms, database and networking skills.
PSO3	To investigate, analyze complex problems by the application of suitable mathematical and research tools, to design Information Technology products and solutions
PSO4	To identify and utilize the state-of-the-art tools and techniques in the design and development of software products and solutions.
PSO5	Ability to identify, interpret, analyze and design solutions using appropriate algorithms of varying complexities in the field of information and communication technology.

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)			
After the	After the successful completion of <b>B.COMCS</b> program, the students are expected to		
PO1	Become knowledgeable in the subject of Corporate Laws and apply the principles of the same to the requirements of the Employer/ Institution /Own Business or Enterprise.		
PO2	Gain Analytical skills in the field/area of Accounting and Taxation		
PO3	Understand and Appreciate Professional Ethics, Community Living andNation Building Initiatives.		
PO4	Capable of handling several departments in companies.		
PO5	Understanding and giving solutions to various Financial Problems.		
PO6	Able to identify and adopt compliance formalities in Company Administration		



# **Department of B.Com Finance**

Program	Program Educational Objectives(PEOs)	
The <b>B.Com(Finance)</b> program describe accomplishments that graduates are expected to attain within five to seven years after graduation		
PEO1	Graduates will be well suited to work in financial services jobs in a variety of financial organizations including banks, investment companies and insurance companies.	
PEO2	Applying the financial instruments in managing the risk of investing and hedging activity at the individual and the corporate level.	
PEO3	Exceling contemporary knowledge of business and developing nation towards Lifelong learning.	
PEO4	Possess wide spectrum of managerial skills along with competency building qualities in specific areas of business studies.	
PEO5	An understanding of best practices and standards and their financial institutions.	

Program Specific Outcomes(PSOs)		
After the	After the successful completion of B.Com(Finance) program the students are expected to	
PSO1	Students will demonstrate high-level proficiency in financial research and its global levels.	
PSO2	Graduates are motivated in career and entrepreneurial skill development to become global leaders in area of business and financial sectors.	
PSO3	Abet students to communicate effectively and to improve their competency skills to solve real time problems in the field of commerce and finance.	
PSO4	Identify the fundamental concepts in mobile application development in the area of calculation of financial sectors.	
PSO5	Ability to design, implement domain knowledge of banking technologies for working of banker to customers.	

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program	Program Outcomes (POs)	
On succes	ssful completion of the <b>B.Com (Finance)</b> program	
PO1	To determine and evaluate the current financial market needs, commercial referral leadsandmarketfluctuationstodevelopprospectivefinancialproposalstoensureandmainta in excellent diplomacy in the competitive business etiquette.	
PO2	To promote and undertake research to understand the financial markets, financial instruments and various investment objectives in the fast-growing business era with the needed skills for limitless career success.	
PO3	To groom professionals for attainment of competence with intellectual contributions and in-depth knowledge in the profession of banking and finance that improves their application to promote continues professional development with limitless earning potential.	
PO4	Have comprehensive knowledge of Finance, Accounting, Taxation and Business laws.	
PO5	Demonstrate knowledge and understanding of business principles and financial advisor apply the set one's own work to manage multidisciplinary environments.	



# **Department of BBA**

### PROGRAMME EDUCATIONAL OBJECTIVES:

PEO1	Graduates will be capable of making a positive contribution to business, trade and industry in the national and global context
PEO2	Graduates will be able to apply frameworks and tools to arrive at informed Decisions in profession and practice, striking a balance between business and social dimensions.
PEO3	Graduates will have a solid foundation to pursue professional careers and take up higher learning courses such as MBA, MCA, MCM, MMM, M.Phil, Ph.D as well as research.
PEO4	Graduates with a flair of self-employment will be able to initiate and build upon entrepreneurial ventures or demonstrate entrepreneurship for their employer organizations.
PEO5	Graduate will recognize the need for adapting to change and have the aptitude and ability to engage in independent and life – long learning in the broadest context of socio-economic, technological and global change.

### PROGRAM SPECIFIC OUTCOMES

PSO 1 :	Understand of the corporate world
PSO 2 :	Analyse the theoretical knowledge with the practical aspects of Organizational setting and techniques or management.
PSO 3 :	Determine conceptual and analytical abilities required for effective decision making.
PSO 4:	Understand the dynamic and complex working environment of Business.
PSO 5 :	Understand the problems faced by the business sector in the Current scenario.
PSO 6:	Analyse the ups and downs of the stock market.
PSO 7 :	Understand the rapid changes of financial services include banking and insurance sectors.
PSO 8 :	Understand the micro and macro marketing environment.
PSO 9:	Understand the international trade procedure and documentation.
PSO 10 :	Understand the Forms of business organization.
PSO 11 :	Understand the business correspondence and communication.
PSO 12 :	Determine the organizational behaviour and its conflict.

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

### PROGRAMME OUTCOMES

At the end of the programme the learner will be able to

Develop the knowledge, skill and attitude to creatively and systematically apply
the principles and practices of management, accountancy, finance, business law,
statistics, HR, operations and IT to management problems and work effectively in
modern day business and non-business organizations.
Develop fundamental in-depth knowledge and understanding of the principles,
concepts, values, substantive rules and development of the core areas of business
such as finance, accounting, marketing, HR, operations along with the tools such
as Tally, MS Excel, MS Office, etc.
Demonstrate the critical thinking mindset and the ability to identify and formulate
research problems, research literature, design tools, analyze and interpret data,
and synthesize the information to provide valid conclusions and contextual
approaches across a variety of subject matter.
Exhibit self-confidence and awareness of general issues prevailing in the society
and communicate effectively with the accounting, commerce, management,
business, professional fraternity and with society at large through digital and non-
digital mediums and using a variety of modes such as effective reports &
documentation, effective presentations, and give and receive clear instructions.
Function effectively as an individual and as a member or leader in teams, and in
multidisciplinary settings by demonstrating life skills, coping skills and human
values.
Analyze the sampling techniques of collecting primary and secondary data and
tools and techniques of data.
Understand the methods of collecting primary and secondary data. Construction
of scaling techniques and determine the steps involved in design of questionnaire.
Analyze and preparation of project report for the Functional areas of research.
Determine the functional areas of management such as Production, purchasing,
marketing, sales, advertising, finance, human resource system, Industry
4.0Understand the SERQUAL of the various service industries.
Analyse the various aspect of business research in the area of marketing, human
resource and Finance.
Analyse the various financial and accounting concept including Balance sheet,



## **Department of BCA**

Program Educational Objectives (PEOs)	
The <b>BCA</b> program describe accomplishments that graduates are expected to attain within	
five to seven	years after graduation
<b>PEO</b> 1	To impart advance knowledge about various sub-domains related to the
	field of computer applications
	To provide the strong character to uphold the spiritual and cultural values of
<b>PEO</b> 2	our country to make students acceptable to both industries and higher
	education.
PEO 3	Graduates will be capable of attaining higher position in their professional
PEO 5	carrier, capable to do quality research by strengthening their mathematical,
	scientific and basic engineering fundamentals.
<b>PEO</b> 4	Graduate will be capable of adopting the changing technologies, tools, and
	industrial environment.
<b>PEO</b> 5	Graduates will promote collaborative learning and spirit of team work
	through multidisciplinary projects and diverse professional activities.

Program Specific Outcomes (PSOs)	
After the succ	cessful completion of BCA program, the students are expected to
<b>PSO</b> 1	Develop proficiency in problem solving and logical thinking skill.
<b>PSO</b> 2	To impart the knowledge of programming languages, web designing, networking and Software development cycle.
<b>PSO</b> 3	Enrich the communicative ability to present orally throughout all the stages of Software development process
PSO 4	Learn latest development and technologies in IT and Communications system.
<b>PSO</b> 5	Implementation of professional engineering solutions for the betterment of society keeping the environmental context in mind, be aware of professional ethics and be able to communicate effectively.

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)		
On succes	On successful completion of the BCA program	
PO1	<b>Disciplinary knowledge:</b> Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer-based systems of varying complexity.	
PO2	Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.	
PO3	<b>Problem solving:</b> Able to provide software solutions for complex scientific and business-related problems or processes that meet the specified needs withappropriate consideration for the public health and safety and the cultural, societal and environmental considerations.	
PO4	<b>Environment and sustainability:</b> Understand the impact of software solutionsin environmental and societal context and strive for sustainable development.	
PO5	<b>Modern tool usage:</b> Use contemporary techniques, skills and tools necessary for integrated solutions.	
PO6	<b>Ethics:</b> Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.	
PO7	<b>Cooperation / Team Work:</b> Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.	
PO8	<b>Communication Skills:</b> An ability to communicate effectively with diversetypes of audience and also able to prepare and present technical documents to different groups.	
PO9	<b>Self-directed and Life-long Learning:</b> Graduates will recognize the need for self- motivation to engage in lifelong learning to be in par with changing technology.	
PO10	Enhance the research culture and uphold the scientific integrity and objectivity	



# **Department of Computer Science**

2022-2025

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program	Educational Objectives (PEOs)
	c. Computer Science program describe accomplishments that graduates are
expected	to attain within five to seven years after graduation
PEO1	To enrich knowledge in core areas related to the field of computer science and mathematics.
PEO2	To provide opportunities for acquiring in-depth knowledge in Industry 4.0/5.0 tools and techniques and there by design and implement software projects to meet customer's business objectives.
PEO3	To enable graduates to pursue higher education leading to Master and Research Degrees or have a successful career in industries associated with Computer Science or as entrepreneurs
PEO4	To enhance communicative skills and inculcate team spirit through professional activities, skills in handling complex problems in data analysis and research project to make them a better team player.
PEO5	To embed human values and professional ethics in the young minds and contribute towards nation building.
PEO9	To develop project

Program	Specific Outcomes (PSOs)
After the	successful completion of <b>B.Sc. Computer Science</b> program, the students are
expected	to
PSO1	Impart the fundamental principles and methods of Computer Science to a wide range of applications.
PSO2	Develop and deploy applications of varying complexity using the acquired knowledge in various programming languages, data structures and algorithms, database and networking skills.
PSO3	To investigate, analyze complex problems by the application of suitable mathematical and research tools, to design Information Technology products and solutions
PSO4	To identify and utilize the state-of-the-art tools and techniques in the design and development of software products and solutions.
PSO5	Ability to identify, interpret, analyze and design solutions using appropriate algorithms of varying complexities in the field of information and communication technology.

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

rogram	Outcomes (POs)
On succe	ssful completion of the B.Sc. Computer Science program
PO1	<b>Disciplinary knowledge:</b> Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer based systems of varying complexity.
PO2	Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes formulate and solve the problems that emerges in the field of computer science.
PO3	<b>Problem solving:</b> Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	<b>Environment and sustainability:</b> Understand the impact of software solutions in environmental and societal context and strive for sustainable development.
PO5	Modern tool usage: Use contemporary techniques, skills and tools necessary for integrated solutions.
PO6	<b>Ethics:</b> Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.
PO7	<b>Cooperation</b> / <b>Team Work:</b> Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.
PO8	<b>Communication Skills:</b> An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups.
PO9	Self-directed and Life-long Learning: Graduates will recognize the need for self-motivation to engage in lifelong learning to be in par with changing technology.
PO10	Enhance the research culture and uphold the scientific integrity and objectivity



## **Department of Information Technology**

2022-2025

### **Program Educational Objectives (PEOs)**

The <b>B. Sc. Information Technology</b> program describe accomplishments that graduates are	
expected to attain within five to seven years after graduation	
PEO1	To obtain in-depth knowledge of software and hardware techniques, which
	provide a compact foundation to pursue continuing education and nurture the
	talent for innovation and research.
PEO2	To Engage in the Information Technology related Profession locally and
	globally by contributing ethically to the competent and professional practices.
PEO3	To enable Graduates will be skilled in the use of modern tools for critical
	problem solving and analyzing industrial and societal requirements
PEO4	To train the graduates in diversified and applied areas with analysis, design and
	synthesis of data to create novel products and solutions to meet current industrial
	and societal needs.
PEO5	To nurture talent in leadership qualities, at levels appropriate to their experience,
	which addresses issues in a responsive, ethical, and innovative manner.

### **Program Specific Outcomes (PSOs)**

After the successful completion of <b>B.Sc. Information Technology</b> program, the students		
are expec	are expected to	
PSO1	Develop an ability to communicate effectively with a range of audiences. Develop written and oral presentations of information technology solutions appropriate for a wide range of audiences.	
PSO2	Develop and analyze quality computer applications by applying knowledge of software engineering, algorithms, programming, databases and networking.	
PSO3	The graduates of the Program will be prepared to achieve their career goals in the software industry or pursue higher studies and enhance their professional knowledge.	
PSO4	To identify and utilize the state-of-the-art tools and techniques in the design and development of software products and solutions.	
PSO5	Practical experience in shipping real world software, using recent industry standard tools and collaboration techniques will equip to secure and succeed in IT industry	

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)	
On successful completion of the B.Sc. Information Technology program	
PO1	<b>Disciplinary knowledge:</b> Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer-based systems of varying complexity.
PO2	<b>Scientific reasoning</b> / <b>Problem analysis</b> : Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.
PO3	<b>Problem solving:</b> Able to provide software solutions for complex scientific and business-related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	<b>Environment and sustainability:</b> Understand the impact of software solutions in environmental and societal context and strive for sustainable development.
PO5	<b>Modern tool usage:</b> Use contemporary techniques, skills and tools necessary for integrated solutions.
PO6	<b>Ethics:</b> Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.
PO7	<b>Cooperation / Team Work:</b> Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.
PO8	<b>Communication Skills:</b> An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups.
PO9	<b>Self-directed and Life-long Learning:</b> Graduates will recognize the need for self-motivation to engage in lifelong learning to be in par with changing technology.
PO10	Enhance the research culture and uphold the scientific integrity and objectivity



## **Department of Computer Technology**

2022-2025

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Edu	Program Educational Objectives (PEOs)	
The <b>B. Sc. Co</b>	The <b>B. Sc. Computer Technology</b> program describe accomplishments that graduates are	
expected to at	tain within five to seven years after graduation	
1	To enhance the broad knowledge in core area related to computer software	
	and hardware technologies	
2	To develop and acquire in-depth knowledge in software design and	
	implementation to meet the requirement of corporate	
3	To facilitate the graduates to pursuing professional careers or researcher or	
	entrepreneurs in computing technologies	
4	To enrich the learners to develop communication, professional skills and to	
	inculcate team spirit	
5	To stimulate the graduates to build awareness on social responsibility,	
	ethical practices and human values in-built in the discipline	

Program Spe	Program Specific Outcomes (PSOs)	
After the successful completion of B.Sc Computer Technology program, the students are		
expected to		
1	Ability to apply core area knowledge in computing system in appropriate to	
	the discipline	
2	Acquired knowledge in software and hardware skills and implementation	
	challenges in varying techniques	
3	Ability to engage in life-long learning and adopt fast changing technology to	
	prepare for professional development	
4	Improve to exhibit professionally or team leader or entrepreneur	
5	Realize technological advances impart society and the social, ethical	
	difficulties of computer technology and their practice.	

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)		
On succe	On successful completion of the B.Sc . Computer Technology program	
PO1	<b>Disciplinary knowledge:</b> Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer-based systems of varying complexity.	
PO2	<b>Scientific reasoning</b> / <b>Problem analysis</b> : Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.	
PO3	<b>Problem solving:</b> Able to provide software solutions for complex scientific and business-related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.	
PO4	<b>Environment and sustainability:</b> Understand the impact of software solutions in environmental and societal context and strive for sustainable development.	
PO5	<b>Modern tool usage:</b> Use contemporary techniques, skills and tools necessary for integrated solutions.	
PO6	<b>Ethics:</b> Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.	
PO7	<b>Cooperation / Team Work:</b> Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.	
PO8	<b>Communication Skills:</b> An ability to communicate effectively with diversetypes of audience and also able to prepare and present technical documents to different groups.	
PO9	<b>Self-directed and Life-long Learning:</b> Graduates will recognize the need for self-motivation to engage in lifelong learning to be in par with changing technology.	
PO10	Enhance the research culture and uphold the scientific integrity and objectivity	



# Department of Artificial Intelligence and Machine Learning

2022-2025 Batch

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Educational Objectives (PEOs)	
PEO1	Expertized with the principles of Artificial Intelligence and problem solving,
	inference, perception, knowledge representation, and learning
PEO2	Exhibit high standards with regard to application of AI techniques in intelligent
	agents, expertsystems, artificial neural networks and other machine learning
	models
PEO3	Investigate with a machine learning model for simulation and analysis and
	explore the scope, potential, limitations, and implications of intelligent
	systems.
PEO4	Promote Design, Research, and implementation of products and services in the field of
I EO4	Engineering through Strong Communication and Entrepreneurial Skills.
PEO5	Re-learn and innovate in ever-changing global economic and technological
1105	environments of the 21st century.

Program Specific outcome (PSOs)	
PSO1	Exhibit good domain knowledge and completes the assigned responsibilities
	effectivelyand efficiently in par with the expected quality standards for
	Artificial Intelligence and Machine Learning professional
PSO2	Apply the technical and critical thinking skills in the discipline of artificial
_ ~ ~ ~ _	Intelligence and machine learning to find solutions for complex problems.
PSO3	Design and develop research-based solutions for complex problems in artificial
	intelligence and machine learning industry through appropriate consideration for
	thePublic health, safety, cultural, societal, and environmental concerns.
PSO4	Establish the ability to Listen, read, proficiently communicate and articulate
1001	complex
	Ideas with respect to the needs and abilities of diverse audiences.
PSO5	Provide innovative ideas to instigate new business ventures in the hospitality
	industry

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

	Program Outcomes (Pos)
PO1	Exhibit good domain knowledge and completes the assigned responsibilities
	Effectively and efficiently in par with the expected quality standards.
PO2	Apply analytical and critical thinking to identify, formulate, analyze, and solve
	Complex problems in order to reach authenticated conclusions.
2PO3	Design and develop research based solutions for complex problems with specified
	needs through appropriate consideration for the public health, safety, cultural,
	societal, and environmental concerns.
PO4	Establish the ability to Listen, read, proficiently communicate and articulate
104	Complex ideas with respect to the needs and abilities of diverse audiences.
PO5	Deliver innovative ideas to instigate new business ventures and possess the
105	qualities of a good entrepreneur.
PO6	Acquire the qualities of a good leader and engage in efficient decision making.
PO7	Graduates will be able to undertake any responsibility as an individual/member of
	Multidisciplinary teams and have an understanding of team leadership.
PO8	Function as socially responsible individual with ethical values and accountable to
	ethically validate any actions or decisions before proceeding and actively
	contribute to the societal concerns.
PO9	Identify and address own educational needs in a changing world in ways sufficient.
	To maintain the competence and to allow them to contribute to the advancement of
	knowledge
PO10	Demonstrate knowledge and understanding of management principles and apply.
	The set one own work to manage projects and in multidisciplinary environment.



## Department of Computer Science with Data Analytics

### 2022-2025 Batch

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

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#### ProgrammeEducationalObjectives(PEOs)

The B.Sc. Computer Science with Data Analytics program describe accomplishments that graduates are expected to attain within five to seven years after graduation.

PEO1	Develop in depth understanding of the key technologies in data science andbusiness analytics: data mining, machine learning, visualization techniques.predictivemodeling, and statistics
PEO2	ApplyprinciplesofDataSciencetotheanalysis of businessproblem
PEO3	Demonstrate knowledge of statistical data analysis techniques utilized inbusinessdecision making

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Program	meSpecificOutcomes(PSOs)
and street of the state of a	uccessfulcompletion omputerSciencewithDataAnalyticsprogramthestudents areexpectedto
PSO1	Imparteducationwithdomainknowledgeeffectivelyandefficientlyinparwith the the expected quality standards for Data analyst professional.
PSO2	Abilitytoapplythemathematical.technicalandcriticalthinkingskillsinthedisciplineof Data analyticsto findsolutions forcomplexproblems.
PSO3	Abilitytoengageinlife-longlearningandadoptfastchangingtechnologyto prepareforprofessional development.
PSO4	Expose the students tokey technologies in data science and businessanalytics:data mining, machine learning, visualization techniques, predictive modeling, andstatistics.
PSO5	Inculcateeffectivecommunicationskillscombinedwithprofessional&ethical attitude.

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

On suc	On successfulcompletion of the B.Sc.ComputerSciencewithDataAnalytics	
PO1	Exhibitgood domain knowledge and completes the assigned responsibilities effectively and efficiently in par with the expected quality standards.	
PO2	Applyanalytical and critical thinking to identify formulate analyze and solve complex problems in order to reach authenticated conclusions	
PO3	Designanddevelopresearchbasedsolutionsforcomplexproblemswithspecifiedneedsthr oughappropriateconsiderationforthepublichealth,safety,cultural,societal, andenvironmentalconcerns.	
PO4	EstablishtheabilitytoListen,read,proficientlycommunicateandarticulate complexideas withrespecttotheneedsandabilitiesofdiyerse audiences.	
PO5	Deliverinnovativeideastoinstigatenew businessventuresandpossessthequalities ofa goodentrepreneur	
PO6	Acquirethequalitiesofagoodleaderandengagein efficientdecisionmaking.	
PO7	Graduateswillbeabletoundertakeanyresponsibilityasanindividual/memberof multidisciplinaryteamsandhaveanunderstandingofteamleadership	
PO8	Functionassociallyresponsibleindividualwithethicalvaluesandaccountabletoethicallyva lidateanyactionsordecisionsbeforeproceedingandactivelycontributeto thesocietalconcerns.	
PO9	$Identify and {\it add ressowneducational needs in a changing world in ways sufficient to maintain the competence and to allow them to contribute to the advancement of knowledge and the set of the se$	
PO10	Demonstrateknowledgeandunderstandingofmanagementprinciplesandapply thesetoone ownwork tomanageprojectsand inmultidisciplinary environment.	







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## **Department of Biotechnology**

2022-2025 Batch

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### **Program Educational Objectives (PEOs)**

The **B.Sc., Biotechnology** program describes accomplishments that graduates are expected to attain within five to seven years after graduation

PEO1	Have enormous opportunities to become an effective researcher in the field of Life
	sciences.
PEO2	Acquire skills to face Various Government competitive exams viz., TNPSC,
	UPSC, SSC, etc.
PEO3	Become socially responsible with morel and intellectuals.
PEO4	Become an entrepreneur and product developer.
PEO5	Graduates will empower skills to meet global challenges through current teaching-
	learning technologies

Program-Specific Outcomes (PSOs)		
After the successful completion of the B.Sc., Biotechnology program, the students are		
expected to		
PSO1	Graduates acquire Problem-solving abilities - solving social issues and engineering	
1301	problems	
PSO2	Graduates will develop an interest in lifelong learning	
PSO3	Graduates develop an ability to design and conduct experiments	
PSO4	Self-employed	
PSO5	Graduates will obtain requisite knowledge on the structure, function, and	
	applications of living organisms and thereby explore it in academia and industry	

Program Outcomes (POs)		
On succe	On successful completion of the B.Sc., Biotechnology program,	
PO1	The students should be able to demonstrate proficiency in basic science and	
101	fundamental biotechnological tools	
	The graduates could understand the working principles of advanced biological	
PO2	sciences	
PO3	The graduates acquire employability skills in the field of Pharma and agricultural	
105	industries	
	The graduates get motivated towards deep learning, higher studies, and research	
PO4	in life sciences	
PO5	The graduates develop health and environmental awareness toward social	
	responsibility	









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# **DEPARTMENT OF MICROBIOLOGY**

### 2022-2025 BATCH

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Student Performance and Learning Outcome

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2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The B.Sc., Microbiology program describe accomplishments that graduates are expected to attain within five to seven years after graduation

PEO1	Active and Principal investigator
PEO2	Resourceful educator
PEO3	Administrative / Executive official
PEO4	Leadership excellence
PEO5	Intellectual adeptness in various perceptions
PEO6	Entrepreneur
PEO7	Chief microbiologist in clinical diagnostic and quality control sector

After t	ne successful completion of B.Sc., Microbiology, the students are expected to
PSO1	isolate and identify the microorganisms including bacteria, fungi and algae.
PSO2	to get acquainted knowledge about the taxonomical classification of microorganisms.
PSO3	acquire knowledge about modern microbiological techniques and bioinstrumentation which make them competent to be placed in various Microbiological / Biotechnological industries.
PSO4	attain practical exposure during the institutional training.
PSO5	gain the knowledge of clinical investigation and diagnosis of various infectious diseases.
PSO6	acquire knowledge on health care, prevention and control of various pathogenic microbes which cause seasonal outbreaks, epidemics and pandemics etc.
PSO7	understand theoretical and practical knowledge in the allied subjects Biostatistics andComputer Applications, Biochemistry in addition to the core subjects in Microbiology.

#### Criteria 2

Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

On successful completion of the B.Sc., Microbiology programme	
PO1	Acquire eligibility for higher studies / technical and administrative placement in government and private sectors.
PO2	Attain competency to be placed in various Microbiological / Biotechnological industries.
PO3	Obtain technical experience to become an entrepreneur by institutional training / internship.
PO4	Understand the integral role of science in life.
PO5	Acquaint and establish equilibrium of nature and in fact create a fit biosphere with the knowledge of Microbiology.
PO6	Acquire skills necessary to fulfill the personal, civil and social responsibilities.
PO7	Develop knowledge in ethical thinking, quantitative analytical skills and its application to the issues in society.
PO8	Acquire knowledge on harmful and beneficial role played by microbes in human health.
PO9	Understand the impact of gene technology in microbiology for human welfare.
PO10	Comprehend the role of recent technologies in microbiological applications & research dat management.



### **Department of Chemistry**

2022-2025 Batch

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program	nEducationalObjectives(PEOs)
	Chemistry programdescribeaccomplishmentsthatgraduatesare toattainwithinfivetosevenyearsaftergraduation
PEO1	Toproduceefficientchemistrygraduateswithstrongfundamentalsin variousfieldsofchemistry
PEO2	Tomakestudentscapabletoassessandrelateissuestoenvironmentaland practiceitwithintegrityand ethics
PEO3	To provideanin-depthknowledge inchemistryandenablethemwithtools neededforindustrialapplications
PEO4	Tointegratetheinter-disciplinaryknowledgeofphysics,mathematicsor biologicalsciencesto widevarietyof fields
PEO5	Todeveloptheabilitytocommunicatethescientificinformationinwritten andoralformats
PEO6	Toinculcateleadershipqualitiesandmoldthemasgoodteamplayersto functioneffectivelyinmultidisciplinaryteams

Afterthe expected	successfulcompletionof <b>B.Sc.Chemistry</b> dto	program, the students are
PSO1	Applychemistryknowledgeto solvetheproble	ems invarious areas.
PSO2	Acquireaskillforsafehandlingof chemicals,ap	pparatusandinstruments
PSO3	Identifyandanalyzeproblemsandgainskillsto information	interpretchemical
PSO4	Gainpracticalknowledgeandanalyticalskillsin mical experiments	ndesigningandcarryingoutche
PSO5	Haveenoughchemistryknowledgetogoforhig entrepreneur	herstudiesandbecome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

	mOutcomes (POs)
Onsucce	essfulcompletionofthe B.Sc.Chemistryprogram
PO1	Understandthechemistryandapplytheirknowledgeinday-to-day life
PO2	Explore the knowledge of analytical technique stothe industries for various analysis
PO3	Developskills to carryout experiments in various fields of chemistry
PO4	Identify, formulateandsolvethetechnologicalproblemsofthe industry
PO5	Applytheirtheoreticalknowledgetomakethecommonpeopleto understandthechemistrybehindeverychemicalchanges.
PO6	Confidencewithskillsandtechniquesnecessarytosucceedinthe competitiveexaminations
PO7	Havetheknowledgeofscienceprinciplestopracticalsituationsin theirrespectiveprofessionalcareer.





2022-2025 Batch

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

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Program Educational Objectives (PEOs) On obtaining an under graduate degree the students will be able to,	
PEO2	Acquire professional and ethical attitude, develop communicative skills, team work spirit, multidisciplinary approach, and an ability to relate and solve scientific/technical issues.
PEO3	Enter into higher studies leading to post-graduate and research degrees.
PEO4	Apply and advance the knowledge and skills acquired to become a competent professional in their chosen field.
PEO5	Serve the society with scientific advancement and actively take part in building a knowledge-based society.
PEO6	comprehend, analyze ,design and create novel products and solutions for the real- life problems through good scientific and technical knowledge.
PEO7	Become an entrepreneur who can make and sell scientific products in the market.
PEO8	Engross in life-long learning to keep themselves abreast of new developments and face global challenges.

Program Specific Outcomes (PSOs) After the successful completion of the B.Sc Physics program ,the students are expected to,	
PSO2	Communicate explicitly and exchange ideas with regard to the impacts of various components of Physics on the environment and society.
PSO3	Expertise in various domains of Physics.
PSO4	Design and develop the skills towards the futuristic needs of the industry/society utilizing both theoretical and practical knowledge acquired in basic Physics.
PSO5	Identify and access the diverse applications of Physics using mathematical concepts enriching career opportunities.

#### Criteria 2 Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes(POs) On successful completion of the B.Sc Physics program ,the students will be able to,	
PO2	Transform ideas into action
PO3	Acquire a wide range of problem-solving skills, both analytical and computational and to apply them.
PO4	Develop an independent and self-disciplined specialized learning in tune with the changing socio-technological scenario.
PO5	Get motivated to pursue higher education and research activities in Physics to find professional-level employment.
PO6	identify, analyze and formulate novel ideas to yield, substantial results in the field of research utilizing the principles of Physics.
PO7	Develop creative thinking and innovative tools.
PO8	Communicate effectively and acquire employability/self-employment.
PO9	Acquire a broad interdisciplinary knowledge.
PO10	Update themselves in the current developments and discoveries related to Physics.



### **Department of B.Sc (Maths with CA)**

2022-2025 Batch

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### **Program Educational Objectives (PEOs)**

The **B. Sc. Mathematics (C.A)** program describe accomplishments that graduates are expected to attain within five to seven years after graduation

Acquire knowledge in functional areas of Mathematics and apply in all the fields of learning.
Recognise the need for lifelong learning and demonstrate the ability to explore some mathematical content independently.
Employ mathematical ideas encompassing logical reasoning ,analytical, numerical ability, theoretical skills to model real-world problems and solve them.
Develop critical thinking ,creative thinking, self confidence for eventual success in career.
Analyze, interpret solutions and to enhance their Entrepreneurial skills, Managerial skills and leadership.
To prepare the students to communicate mathematical ideas effectively and develop their ability to collaborate both intellectually and creatively in diverse contexts.
Rewarding careers in Education, Industry, Banks, MNCs and pursue higher studies.

Program	n Specific Outcomes (PSOs)
After the expected	successful completion of <b>B. Sc. Mathematics (C.A)</b> program, the students are to
PSO1	Maintain a core of mathematical and technical knowledge that is adaptable to changing technologies and provides a solid foundation for extended learning.
PSO2	Identify the applications of Mathematics in other disciplines and society.
PSO3	Develop an in-depth knowledge in Mathematics appreciating the connections between theory and its applications.
PSO4	Demonstrate their mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
PSO5	Develop mathematical aptitude and the ability to think abstractly
PSO6	Learn independently and improve ones performance.
PSO7	Students are equipped to appear competitive examinations.

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)	
On successful completion of the B. Sc. Mathematics(C.A)program	
PO1	Students are empowered with analytical and logical skills to formulate results and construct mathematical argument.
PO2	Ability to organize, analyze and interpret data accurately in both academic and non -academic context.
PO3	Demonstrate effective communication of mathematical ideas and creative thinking skills to facilitate solving real world problems as a team and independently.
PO4	Appreciate and identify the connections between mathematics and other disciplines.
PO5	Competency to obtain employment in education, public and private sectors.
PO6	Identify the area of interest for extended learning from the understanding gained from the domain and allied areas of Mathematics.
PO7	Develop mathematical aptitude ,programming skills and make critical observations .
PO8	Garner innovative ideas to face global challenges.
PO9	Instill a sense of responsibility in tackling professional and social issues ethically.
P10	Trigger their passion for research in unexplored areas of Mathematics.



## **Department of English**

2022-2025 Batch

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2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Educational Objectives (PEOs) The B. A. English Literature program will enable the students to	
PEO2	Analyse the societal needs and issues through the literary perspective and to Practice lifelong learning for enhancing the ethical values of the society
PEO3	To develop efficiency in LSRW skills and present themselves as efficient language trainers
PEO4	To produce noble research works
PEO5	Improve their understanding about various socio- cultural aspects and find employment in media, freelance writing, content writing and teaching.
PEO6	Improve the possibilities of their employment in various sectors
PEO7	Understand the requirements of the industry and Prepare themselves to face the challenges of competitive environment

Program	Specific Outcomes (PSOs)
After the expected	successful completion of B.A. English Literature program, the students are
PSO1	To demonstrate their competency in the domain area
PSO2	To analysis the literary texts, with a critical insight
PSO3	To impart the critical evaluation on the literary texts
PSO4	To present the learned ideas
PSO5	To assess their communicative competency
PSO6	To understand the role of a literature student in shaping the course of the society
PSO7	To analyse the impact of literature on the society
PSO8	To comprehend the ethical quality of a literary text
PSO9	To acquire the ability in understanding the lifelong learning
PSO10	To produce effective projects

#### Criteria 2 Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Progra	am Outcomes (POs)
On successful completion of the B.A. English Literature programme, students will be able to	
PO1	Prove their knowledge and skills in Language and Literature.
PO2	Prove his proficiency in Listening Speaking Reading Writing.
PO3	Analyse a literary text of any genre like poetry, drama, prose, short story and fiction.
PO4	Apply the knowledge of literary theories in analyzing the literary text.
PO5	Write simple poems, short stories and essays.
PO6	Work as a leader and work in a team effectively in the fields related to Language and Literature.
PO7	Understand the need for lifelong learning and hone the required skills related to the industry.
PO8	Analyse the impact of literature on society and work for the betterment of the society.



## **Department of Computer Science**

### 2022-2024 Batch

SNMV College of Arts and Science



Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

# **M. Sc. COMPUTER SCIENCE**

Syllabus

### **AFFILIATED COLLEGES**

### Program Code: 32K

### 2021 - 2022 onwards



### BHARATHIAR UNIVERSITY

(A State University, Accredited with "A" Grade by NAAC, Ranked 13<sup>th</sup> among Indian Universities by MHRD-NIRF, World Ranking : Times - 801-1000, Shanghai - 901-1000, URAP - 982)

Coimbatore - 641 046, Tamil Nadu, India

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### Program Educational Objectives (PEOs)

	<b>Sc. CS</b> program describe accomplishments that graduates are expected to attain within even years after graduation
PEO1	To enrich the students with the clear picture of the course objectives and to map their requirements.
PEO2	To enable the students, to understand the core concepts, visualize and to apply them in the real time scenarios.
PEO3	To impart the need for consistent learning, importance of research & development for the welfare of the society and to the nation at large.

Program Specific Outcomes (PSOs) After the successful completion of M.Sc. CS program, the students are expected to	
PSO2	Acquire evaluation of potential benefits of alternative solution in designing software and/or hardware systems in broad range of open source programming languages to withstand technological changes.
PSO3	Able to pursue careers in IT industry/ consultancy/ research and development teaching and allied areas related to computer science.
PSO4	Adapt to the continuous technological change in computational science and update themselves to meet the industry requirements and standards.
PSO5	Apply the practices and strategies of computer science for software project development to deliver a quality software product and contribute to research in the chosen field and perform effectively.

Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Progran	n Outcomes (POs)
On successful completion of the M.Sc. CS program	
PO1	Develop creativity and problem solving skills with the knowledge of computing and mathematics.
PO2	Ability to develop and carry out experiments, interpret and infer data.
PO3	Design algorithms and develop software to aid solutions to industry and governments.
PO4	Review the latest technology and tool handling mechanism.
PO5	Analyze the outcome to solve global environment related issues.
PO6	Apply the knowledge in lifelong learning journey to equip themselves.
PO7	Identify the perspective of business practices, risks and limitations.
PO8	Work with professional and ethical values.
PO9	Formulate the responsibilities of human rights and entrepreneurial spirit.
PO10	Understand the methods to communicate effectively and work collectively.



## **Department of Biotechnology**

### 2022-2024 Batch

SNMV College of Ats and Science

Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated



2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### M.Sc. Biotechnology 2021-22 onwards-Affiliated Colleges - AnnexureNo.36(a) SCAADATED:23.06.2021

Program	n Educational Objectives (PEOs)
The M. Sc. Biotechnology program describe accomplishments that graduates are expected to attain within five to seven years after graduation	
PEO1	Graduates will establish themselves in various sectors of Biotechnology related industries such as Pharma, clinical diagnostics, Agriculture, Food, textiles etc
PEO2	Graduates will exhibit their effective skills in Research & Development in Biotechnology field at the National and International levels
PEO3	Graduates gain thorough knowledge in the subject, develop effective communication skills and be good academicians
PEO4	Graduates are encouraged and motivated to become entrepreneurs

#### M.Sc. Biotechnology 2021-22 onwards-Affiliated Colleges - AnnexureNo.36(a) SCAADATED:23.06.2021

	a Specific Outcomes (PSOs) successful completion of Biotechnology program, the graduates
PSO1	Demonstrate the ability to design, conduct experiments and analyze data in the field of biotechnology
PSO2	Demonstrate the ability to independently carry out the research and development work in biotechnology
PSO3	Learn to apply appropriate modern tools and techniques in genome modifications for the welfare of mankind
PSO4	Acquire knowledge of norms and ethics in biotechnology/product development/patent writing
PSO5	Will develop effective entrepreneurial skills, winning business opportunity
PSO6	Develop skills to resolve scientific and technological problems in biotechnology based industries

Student Performance andLearning 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### M.Sc. Biotechnology 2021-22 onwards-Affiliated Colleges - AnnexureNo.36(a) SCAADATED:23.06.2021

Program	n Outcomes (POs)
On succe	essful completion of the M.Sc. Biotechnology program
PO1	Acquires Scientific Knowledge on the various subjects related to Biotechnology field
PO2	Develops skills pertaining to various fields of Biotechnology
PO3	Trained to implement their knowledge in research
PO4	Understand the implications on the environment and society at large
PO5	Understand the ethical issues pertaining to the subject
PO6	Students will be able to design new biotechnological products or processes by applying innovative knowledge of different disciplines of biotechnology
PO7	Develops ability to successfully carry out advanced tasks and projects independently in various streams of biotechnology disciplines.
PO8	Demonstrate the ability to carry out the research projects independently
PO9	Develops the ability to conceptualize and carry out collaborative ventures across the disciplines
PO10	Develop skill sets for employability in diverse areas of biotechnology as well as for the higher studies

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# **Department of Microbiology**

### 2022-2024 Batch

SNMV College of Arts and Science

Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated



1 1

#### M.Sc. Microbiology 2021-22 onwards-Affiliated Colleges - AnnexureNo.32(a) SCAADATED:23.06.2021

The <b>M. Sc. Microbiology</b> program describe accomplishments that graduates are expected to attain the following:	
PEO1	To provide an excellence in their microbiology subject along with research
PEO2	To expertise in the fields of clinical microbiology and also quality controller in industries
PEO3	The students shall become an industrialist and also an entrepreneur commercializing his own microbial product
PEO4	To provide the students with subject proficiency, environmental awareness, ethical codes and guidelines, along with life education for a successful professional career.

#### M.Sc. Microbiology 2021-22 onwards-Affiliated Colleges - AnnexureNo.32(a) SCAADATED:23.06.2021

Program	ne Specific Objectives (PSOs)
After the successful completion of M. Sc. Microbiology degree course, the students are able to	
PSO1	Recollect the fundamental aspects in the various branches of Microbiology, which enable them to be familiar with emerging and advanced scientific concepts in life sciences
PSO2	Implement the obtained conceptual knowledge through connecting interdisciplinary areas of Microbiology
PSO3	Evaluate the necessity and its effectiveness of scientific application towards the development of society
PSO4	Analyze the advancement in Microbiology in research aspects which lead to new inventions
PSO5	Create innovative ideas in technical areas of Microbiology, to become an industrialist, entrepreneur and a good citizen to the nation

Criteria 2

**Student Performance** 

andLearning

SNMV College of Arts and Science

#### M.Sc. Microbiology 2021-22 onwards-Affiliated Colleges - AnnexureNo.32(a) SCAADATED:23.06.2021

On succe able to	essful completion of M. Sc. Microbiology degree course, the students are
PO1	Acquire knowledge on microorganisms and its significance in various fields of microbiology
PO2	Focus on innovation and entrepreneurial thinking to be successful in a rapidly changing world.
PO3	Develop knowledge in qualitative, quantitative, analytical skills and Fulfill the necessity of Life Sciences stream through clearing NET/ SLET and other competitive exams.
PO4	Conquer the novel and recent techniques to compete with the societal needs.
PO5	Impart knowledge on progressing issues and its significance on ethica thinking.
PO6	Manipulate the microbes using various molecular biology techniques for the benefit of living organisms.
PO7	Scale up production of microbial metabolites using industrially important microorganism adopting bioprocess technology
PO8	Apply bioinformatics tools for analyzing molecular biology data of Microbes
PO9	Understand the Synthesize of Nano-materials and the impact or microbiological applications.
PO10	Understand the importance of artificial intelligence and machine learning in microbiology and allied applications.



## **Department of Social Work**

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

#### **Program Educational Objectives (PEOs)**

The **M.S.W** program describe accomplishments that graduates are expected to attain within five to seven years after graduation

PEO1	Take up employment opportunity directly related to Social Work and in its specialization area in government and in private sectors
PEO2	After the completion of the course student start their own NGOs to help the needy
	and downtrodden people in the society and they act as entrepreneurs.
PEO3	Become a Social Worker, School Counsellor, Programme Organiser, Project
1205	Coordinators to upbringing the marginalized community
PEO4	Impart the advance knowledge and updated technology in the field of Social Work
FLO4	for their higher-level career
DEOS	To help students develop the skills needed in conducting a research in their
PEO5	specialization.
DEOC	To equip the students with innovative and effective skills in the field of Social
PEO6	Work to face new emerging challenges.
DEO7	To enable the students to acquire knowledge about how to write a project proposal
PEO7	which will help them to take projects from state and central government
	Equipped with Professional knowledge and skills make them to become Social
PEO8	Activists and raise the voice for voiceless to advocate the injustice happen in the
	society and work for bringing Social Changes in Society.
DEOC	Encouraged the students to take up higher studies leading to academic and research
PEO9	carriers
	Wide spectrum of Social Work experience will equip them to work for Social
PEO10	Development where ever they are placed.

Program Specific Outcomes (PSOs)		
After the	After the successful completion of M.S.W program, the students are expected to	
PSO1	Adhere the social work ethics, values and ensure social justice in both personal and	
	professional life for the well-being of the society.	
PSO2	Develop an in-depth understanding of the Social Work profession, process through	
1302	course work	
PSO3	Critically analyze and understand the existing social issues in the right perspective	
1303	using Interdisciplinary Approach.	
	Demonstrate an advanced knowledge of skills in all areas including Personnel	
PSO4	management and industrial relations, Medical and psychiatric Social Work,	
	community organisation, Family and Child Welfare,	
PSO5	Become proficient in a specific area of specialization.	
PSO6	To expose students to analyse the problem and also enable them to frame a new	
1300	policy, programme or procedure to solve the problem	
PSO7	Adapt new innovative skills and strategies to solve the individual problem at local	
1307	community level and at national level	
PSO8	Develop a systematic, critical approach to problem solving at all levels of the	
1300	social work interventions.	
PSO9	Professional skills and abilities will enlarge their potential to face future challenges	
1309	in their life and carrier	
PSO10	Help them to increase their professional perception in achieving the task of given	
12010	project for a cause of social development	

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program Outcomes (POs)		
On succe	On successful completion of the M.S.W. program	
PO1	Implement new perspective of understanding the society and its problem	
PO2	Helping the student to practice various social work interventions like counselling, case study, group therapy and community awareness programmes for any problem	
PO3	Communicate their ideas, plan and programmes as solution for many social problems	
PO4	Understand the structure and procedures of many organisation and provide effective method of fundraising, and other innovative programmes to develop the organisations according to the international standard	
PO5	Develop new project and intervention programme according to the need of the different weaker section of the society.	
PO6	Conducting an evaluation programme on government projects and find out the outcome of the project which will helpful in bringing new alterations.	
PO7	At the national level in the policy formulation, effective recommendation can be made to bring a holistic development in many fields by applying social work concept, process and its techniques.	
PO8	Understand and assess societal, environmental, health. safety, legal and cultural issues prevailing in the field of social work	
PO9	Identify research problems, obtain relevant data, interpret, and report findings for achieving desirable social change and empowerment of people.	
PO10	Empower them to obtain social and personal satisfaction and enhance the quality of life of individuals and society at large.	



### **Department of English**

Program Educational Objectives (PEOs)		
The M.A ENGLISH Literature program describe accomplishments that graduates are		
expected	expected to attain within five to seven years after graduation. The postgraduates	
PEO1	Acquire a level of subject knowledge eligible to teach high school and higher secondary students.	
PEO2	Apply their language skills to become successful trainers in communication.	
PEO3	Choose teaching at the college level with a passion for the subject.	
PEO4	Apply their knowledge on various areas of literature to pursue research.	
PEO5	Make use of the acquired writing skills to grab a lot of opportunities as content writers and editors.	
PEO6	Utilize the avenues for skilled postgraduates as columnists and creative artists.	
PEO7	Choose online platforms to become bloggers and reviewers.	
PEO8	Select fields like journalism to get employed as reporters, editors and news readers.	
PEO9	Identify positions at the state and central level like the civil services and attempt competitive examinations	
PEO10	Develop their creative skills thereby turning into poets and writers of wide acclaim.	

Program	Program Specific Outcomes (PSOs)	
After the expected	successful completion of M.A in English Literature program, the students are to	
PSO1	Understand the various genres of English Literature	
PSO2	Acquire a sound knowledge of the periods of English Literature and writers during the period	
PSO3	Identify the features of each period in the given text	
PSO4	Learn the important movements and theories practiced in the different periods	
PSO5	Develop good communication skills	
PSO6	Select new areas of research	
PSO7	Show interest in the literatures of the world	
PSO8	Demonstrate translation skills by translating simple texts	
PSO9	Recall concepts and texts to clear competitive examinations	
PSO10	Make use of the experience of the morals and values learnt from literature in transforming society	

Student Performance andLearning 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

Program	n Outcomes (POs)
On succe	essful completion of the M.A English Literature program, students
PO1	Maximize their knowledge level of the English language and literature.
PO2	Develop social responsibility as literature reflects life.
PO3	Acquire sound knowledge of classical writers and texts.
PO4	Apply the theories taught to a given text.
PO5	Identify research prospects and areas.
PO6	Demonstrate good communicative skills
PO7	Build creative skills through the reading of different literatures
PO8	Discover the teaching skills in them through the seminars given during the
	Program
PO9	Organize and manage events
PO10	Create a better outlook of life accepting challenges from the learning experience



### **Department of M.COM**

SNMV College of Arts and Science

Student Performance and Learning Outcome



Program Educational Objectives (PEOs) The M.Com program describe accomplishments that graduates are expected to attain within five to even years after graduation	
PEO2	To offer investment /finance/tax consultancy and business analytics
PEO3	To manage firms offering financial services
PEO4	To pursue research in commerce /Management
PEO5	To exercise professional skills and values

Program Specific Outcomes (PSOs)		
After the s	After the successful completion of M.Com program, the students are expected to	
PSO1	Undertake a research work with specializations	
PSO2	Use software tools to carry out a specified financial analysis of a business application	
PSO3	Apply the knowledge gained during the course of the program to solve the real time problems	
PSO4	Meet the needs of industry 4.0	
PSO5	Communicate effectively with professionals	



Student Performance andLearning 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

	Program Outcomes (POs) On successful completion of the M.Com program	
On st		
PO1	To ensure all round development of personality required for an executive	
PO2	To build necessary skills concerning commercial theories and applications to business by using business analytics	
PO3	To obtain practical knowledge in commercial activities by understanding training in commercial and industrial establishments	
PO4	To develop a broad range of business skills and commercial knowledge, development of general and specific capabilities to meet the current and future expectations of business and industry	
PO5	To enrich the necessary competencies and creativity to undertake entrepreneurship as a desirable and feasible career option	









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## **Department of M.Com CA**

SNMV College of Arts and Science

Student Performance and Learning Outcome



Student Performance andLearning

Program Educational Objectives (PEOs) The M.Com (Computer Applications) program describe accomplishments that graduates are expected to attain within five to seven years after graduation		
PEO2	To manage the retail outlet independently	
PEO3	To assume the responsibilities of computer operation in small business engaged either in manufacturing or rendering services.	
PEO4	Involve in lifelong learning	
PEO5	Exercise professional skills and values in the ICT sector	

Program Specific Outcomes (PSOs)		
After the successful completion of the M. Com (Computer Applications) program, the students are expected to		
PSO1	To gain practical insights in project preparation and analysis of business data	
PSO2	Use software tools to carry out a specified financial analysis for a corporate sector	
PSO3	Apply the knowledge gained during the course of the program to solve the real time problems	
PSO4	To meet the needs of industry 4.0	
PSO5	Communicate effectively with ICT professionals	

Student Performance <u>andLearning</u>

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

	Program Outcomes (POs)			
On successful completion of the M. Com (Computer Applications) program				
PO1	To be conversant with recent development in commerce and trust areas in the field of computer			
PO2	To gain computer knowledge and make use of it effectively in the field of commerce			
PO3	To design computer software to suit the needs of industry and business			
PO4	To acquire skill in doing business in the electronic environment			
PO5	To become worthy citizens of the nation by enriching knowledge in the application of computer in commerce			



# **Department of MBA** 2022-2024 Batch

Program Educational Objectives (PEOs)		
A graduate of Master of Business Administration program is expected to attain the		
following within five to seven years after graduation		
PEO1	Occupy middle level managerial positions in private and public sector business	
TLOI	firms	
PEO2	Occupy executive positions in primary, secondary and tertiary sector industries	
PEO3	Adding value to organizations by ushering in innovative ideas and applying	
FEOS	emerging technologies	
PEO4	Become successful entrepreneurs providing employment for many and contribute	
	to the country's economic growth	
PEO5	Turn to productive research in Management and contribute to the existing body of	
	knowledge	

Program Specific Outcomes (PSOs)		
After the successful completion of MBA program, the students are expected to		
PSO1	Take decisions related to their area of employment independently	
PSO2	Apply knowledge gained to arrive at rational decisions	
PSO3	Manage a relatively small group of people effectively	
PSO4	Achieve objectives consistently	
PSO5	Conduct research in the broad field of Management	
PSO6	Apply ICT tools effectively on the job	
PSO7	Identify and implement innovative business ideas	

Criteria 2 Student Performance and Learning Outcome 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and COs are evaluated

rogram Outcomes (POs)		
The students are expected to possess the following skill sets on completing the course		
PO1	Basic knowledge of different spheres of management	
PO2	Business decision making	
PO3	Analyze the situation and find solutions	
PO4	People management skills	
PO5	Goal oriented teamwork	
PO6	Time bound achievement of objectives	
PO7	Effective leadership skills	
PO8	Applying ICT tools on business	
PO9	Ability to focus on objectives	
PO10	Apply managerial principles in life situations as well	



