

**SETH HIRACHAND MUTHA COLLEGE OF ARTS, COMMERCE AND SCIENCE**  
**BACHELOR OF COMMERCE**

Class & Subject	Objectives	Outcomes
FYBCOM (Sem-I) Commerce Paper - I	To familiarize the students with basic concepts of business. To develop knowledge and understanding of business. To make students aware of current trends in business.	Students understood the meaning and objectives and importance of business. Students understood the working of business environment and its various components. Students were able to identify the changes in the business.
FYBCOM (Sem-I) Commerce Paper - II	To familiarize the students with basic concepts of Services. To develop knowledge and understanding of Services. To make students aware of current trends in Services Sector.	Students understood the difference between product and service and features of services. Students were able to identify the service marketing mix. Students identified the current changes in Service Sector like Retail, Banking, ECommerce, etc.
SYBCOM (Sem-III) CSP - I	1. To develop an understanding, at an advanced level, of the company secretary's role in putting into practice statutory provisions, rules and regulations, and observing established and best practices.	Students understood the importance of company secretary, qualification and qualities, career opportunities for company secretary Students understood the role of secretary in company formation stages. Students understood the contents of important company documents like MoA, AoA, Prospectus, etc. Students understood the various concepts related to Shareholders and Debentureholders
SYBCOM (Sem-IV) CSP - II	To develop an understanding of how companies are governed and respective roles of the Company Directors and Shareholders To develop an understanding of the role of a shareholder, share register and the principles and procedures involved in share registration. To develop understanding of the Listing requirements, the prospectus and knowledge of the practical procedures involved.	Students understood the role of company directors in the management of the company, their appointment, retirement, removal, etc. Students understood the meaning and importance of listing of shares, its process and advantages. Students understood the working of share market, the concept of dematerialisation and online trading
SYBAF (SEM-III)	To familiarize students with the basics of	Students were able to remember and identify the different

Information Technology	<p>computers, hardware parts, software types and networking technologies.</p> <p>To develop the office management skills among the students with the help of basic and advanced office management softwares</p> <p>To develop an understanding of working and use of web and internet and various components of e-commerce.</p>	<p>components of a computer hardware and software.</p> <p>Students were able to work on office management softwares like word, excel, powerpoint and completed their projects.</p> <p>Students understood the power of web and internet technology and the importance of surfing the net safely and confidently.</p>
SYBAF (SEM-IV) Information Technology	<p>To familiarize the students with the modern system of business process, automation of process, and process management.</p> <p>To make students aware about the computerised accounting systems, its uses and accounting softwares</p> <p>To develop an understanding about the concept of MIS, recording, reporting, information flow, guidelines, etc in MIS</p>	<ol style="list-style-type: none"> <li>1. Students understood the concept of business process, its management and automation, benefits and risks, and challenges.</li> <li>2. Students developed the skills in various accounting softwares and understood its benefits.</li> <li>3. Students understood the importance of information flow in organisation, its management and advantages, challenges for businesses.</li> </ol>
SYBMS (Sem-III) Information Technology	<p>To learn basic concepts of Information Technology, its support and role in Management for managers</p> <p>To give hands on training required for office automation. It is expected to have practical sessions of latest MS-Office software</p> <p>To understand basic concepts of Email, Internet and websites, domains and security therein</p> <p>To recognize security aspects of IT in business, highlighting electronic transactions, advanced security features</p>	<p>Students understood the basics of computer system and its application</p> <p>Students were able to work confidently on office softwares like work, excel and powerpoint.</p> <p>Students were able to create their email accounts, types emails, attachments. Learned how to prepare websites and purchase of domains.</p> <p>Students understood the safety technologies implemented in IT environment and importance of it.</p>
SYBMS (Sem-IV) Information Technology	<p>To understand managerial decision making and to develop perceptive of major functional areas of MIS.</p> <p>to provide conceptual study of enterprise resource planning supply chain management customer relationship management key issues in implementation.</p> <p>to provide understanding about imaging MS technology is like ERP CRM SCM and trends</p>	<p>Students were able to understand the concept of mis it subsystems structure and reason of failure of MIS</p> <p>students were able to understand various concepts related to electronic commerce such as electronic resources planning supply chain management customer relationship management</p> <p>Students understood the meaning of DBMS data mining and data warehousing and its business applications</p> <p>Students understood the meaning of outsourcing its need the difference between BPO and keep you and cloud environment.</p>

	<p>in enterprise applications. to learn and understand relationship between database management and data warehouse approaches the requirements and applications of data warehouse Dulhan outsourcing concept BPO/KPO industries their structures cloud computing.</p>	
SYBBI (Sem-III) Information Technology	<p>To make students aware about the concept of ecommerce and its components and technologies. To familiarize students with the concept of e banking and electronic payment system To enable students to work in office automation softwares To create awareness among students about cyber security, cyber law and cyber crimes</p>	<p>Students understood the concept of ecommerce and its components in detail. Students understood the ebanking and payment technologies. Students were able to work confidently on office softwares like work, excel and powerpoint. Students understood the safety technologies implemented in IT environment and importance of it.</p>
FA	<p>The objective of financial accounting in BAF is to prepare financial statements accordance with appropriate standard &amp; interpreting the business implications of financial statement information.</p>	<p>During the course learner is able to recognize &amp; understand ethical issues related to the profession also develop the ability to use a basic accounting systems to create ( record, classify &amp; summarize) the data needed to solve a variety of audience.</p>
FC	<p>The objective of teaching contemporary rights of citizens is make the young generation aware of all the rights they will enjoy as consumer.further it also makes student aware of modern technologies &amp; their implications. The students will also get knowledge about competitive exams &amp; soft skills required for particular exams.</p>	<p>Less manipulation &amp; educated, fully aware citizen for our future India. Students can easily prepare for their future after getting knowledge of competitive exams &amp; develop their soft skills</p>

Course outcome of Arts

वर्ग	विषय	घटक	मुल्य
एफ वाय x बी ए	अर्थशास्त्र (सुक्ष्म व समग्र अर्थशास्त्र )	व्यावसायिक नैतिकता	याविषयातर्गत व्यावसायिक आणि मान्यताप्राप्त व्यवसायात काम करणाऱ्या तज्ञांचे ज्ञान व कौशल्य विद्यार्थ्यांना समजावून सांगता येते तसेच या ज्ञानाचा वापर कसा करावा यासारख्या व्यावसायिक नैतिकतेचेच्या ज्ञान विद्यार्थ्यांना होते. जबाबदारी, अनुकूलता ,कार्यसंघ यासारखी मुल्य या विषयांतर्गत दिसून येतात कारण व्यावसायिक आचरण हे सकारात्मक असणे,प्रामाणिक संवाद साधणे ,स्वतःहून रचनात्मक अभिप्राय स्विकारणे इ. गोष्टी विद्यार्थ्यांना या मुल्यातून समजतात .
		मानवी मूल्ये	मानवी मूल्यांचा वेगवेगळ्या प्रकारे वेगवेगळ्या मार्गांनी उपयोग केला गेला आहे चार्ल्स मॉटीस, रॉबिन विलियम्स , ब्रेव्हस्टर स्मिथ यासारख्या अर्थशास्त्रज्ञांची ओळख विद्यार्थ्यांना होऊन त्यांना मानवी मुल्ये व वस्तूचे मुल्ये यातील भेद समजतो व आपल्या विशिष्ट कल्पना ,अनुभव इ. ते ओळखायला शिकतात प्रत्येक. व्यक्तीस योग्य ज्ञान मिळविण्याचा अधिकार आहे हे शैक्षणिक मुल्य विद्यार्थ्यांमध्ये रुजते यातून व्यावसाहिक प्रामाणिकपणा , लोकशाही राज्य व टिकाऊ वातावरण निर्माण करण्यासाठी ही मुल्ये उपयुक्त ठरतात .
		पर्यावरणीय स्थिरता	असमानता, दारिद्र्य व पर्यावरणीय घटनेतील दुवे ओळखणे व समाजाला पाठिंबा देणाऱ्या वातावरणाला कमी नुकसान देऊन एक चांगल्या जगाचा मार्ग शोधणे

			<p>यामुळे एका समृद्ध समाजाची स्थापना होऊ शकते. पर्यावरणीय स्थिरता ही सुनिश्चित करते की, पाणी, अन्न, वस्त्र ,निवारा यासारख्या गरजा पूर्ण करण्यासाठी व्यक्तीचे जीवन आनंददायक बनविण्यासाठी गुंतवणूकीच्या स्वरूपात व्यवसाय स्थापन करणे ,नूतनीकरण यामुळे पर्यावरण व अशा स्त्रोत्राचा नाश होणार नाही यांचे ज्ञान विद्यार्थ्यांना होणे गरजेचे आहे कारण आजकाल पर्यावरणीय स्थिरतेचे महत्व नाकारू शकत नाही</p>
टी वाय बी ए	<p>समग्र अर्थशास्त्र</p> <p>सुक्ष्म अर्थशास्त्र</p> <p>संशोधन पद्धती</p> <p>आर्थिक विचाराचा इतिहास</p> <p>आंतर राष्ट्रीय व्यापार व धोरणे</p>	व्यावसायिक नैतिकता	<p>याद्वारे व्यावसायिकांच्या अपेक्षित वर्तनाचा विचार करते. व्यावसायिक नैतिकता आपल्याला आवश्यक ज्ञान व कौशल्य प्राप्त करण्यास सक्षम करते कारण त्यामुळे आपण सामान्य निर्णय घेऊ शकत नाही येणाऱ्या परिस्थितीत निर्णय घेण्यास, कौशल्याचा वापर करण्यास व निर्णय घेण्यास ते सक्षम बनवते .यामध्ये जबाबदारी ,व्यावसायिक आचरण , अनुकूलता, कार्यसंघ, गुप्तता इ . व्यावसायिक नैतिकतेचे ज्ञान विद्यार्थ्यांना देता येते .सूची तयार करणे ,वेळेचे व्यवस्थापन,प्राधान्य ,अधिकृत पद्धतीने संगणक वापरणे, व्यावसायिक आचरण सकारात्मक असणे , प्रामाणिकपणे संवाद साधणे ,कार्य पूर्ण करण्यासाठी नवीन तंत्रज्ञानाचा उपयोग करणे ऑनलाईन चर्चेत योगदान देणे, प्रकल्पांना कल्पना देणे , गटात आपले योगदान देणे इ. मुल्ये विद्यार्थ्यांमध्ये याविषयांद्वारे रुजवता येतात यातूनच भविष्यात ते एक चांगले व्यावसायिक होऊ शकतील .</p>
		पर्यावरणीय स्थिरता	<p>सध्या मानवाला सर्वात मोठ्या आव्हानाला सामना करावा लागत आहे कारण आपण तंत्राला महान केले आहे पण त्यातून पर्यावरणाचे नुकसान होत आहे याकरिता परिस्थितीवर नियंत्रण आणण्यासाठी गरज आहे हे विद्यार्थ्यांना सांगणे आवश्यक आहे कारण आजकाल हा महत्वाचा विषय आहे लोक व्यापारात आणि व्यवसायांवर संपूर्ण प्रभाव पाडत आहेत, पर्यावरणीय स्थिरता ही जबाबदार निर्णय घेण्यासारखी आहे जी व्यावसायिक नकारात्मक गोष्टींना कमी करते .तसेच नैसर्गिक संसाधनाचे संरक्षण करते .आपला व्यवसाय पर्यावरणाला अनेक</p>

			मार्गांनी मदत करतो नैसर्गिक संसाधनांवर तणाव येणार नाही इ. गोष्टी विद्यार्थ्यांमध्ये रुजवता येते
एस वाय बी ए	पायाभूत अभ्यास	व्यावसायिक नैतिकता	जबाबदारी, सत्यता ,आदर ,सतत शिकणे ,कार्यसंघ इ. व्यावसायिक नैतिकता रुजवता येतात वैयक्तिक जबाबदारी स्वीकारणे,सतत शिक्षणाची संधी शोधणे , प्रकल्प तयार करणे ,ते अंमलात आणणे ,गोपनीयता राखणे ,व्यावसायिक मुल्ये ,मार्गदर्शक तत्वे ,स्पर्धात्मक परीक्षांचा अवलंब ,नवीन व्यवसाय स्थापन करणे इ. गोष्टी यातून विद्यार्थ्यांना अध्ययन होतात व त्याच्या अंगी रुजवल्या जातात
		मानवी मूल्ये	लोकशाहीमध्ये सर्व जणांना राजकीय प्रक्रियेत भाग घेण्याचा समान अधिकार असतो जात ,भाषा ,लिंग ,क्षमता व धार्मिक विश्वासामधील मतभेदांकडे सर्व लोकांच्या मुलभूत अधिकारांबद्दल विचार केला जातो तसेच चांगल्या नागरिकत्वासाठी त्यांना प्रोत्साहित केले जाते .जे ज्ञानावर प्रभाव पाडतात त्याची मुलभूत मुल्ये सांगता येतील .
		पर्यावरणीय स्थिरता	पर्यावरणीय समस्या कबूल केल्यानंतरच योग्य ती त्यावर कारवाई होऊ शकते .व त्यातून चांगल्या गोष्टी घडू शकतात .विकास गरजेचा आहे जे भविष्यातील पिढ्यांशी त्यांच्या गरजा पूर्ण करण्याच्या क्षमतेशी तडजोड केल्याशिवाय सध्याच्या गरजा पूर्ण करते याकरीताच पर्यावरण स्थिरता गरजेची असते . विद्यार्थ्यांना या विषयातून या सर्व गोष्टी समजतात हे मुल्य त्यांच्यात रुजवल्यामुळे पर्यावरणाला हानी न पोहचवता भावी पिढी आपल्या विकास करू शकेल .
		लिंग समानता	सामाजिक कारणांमुळे भारताच्या लैंगिक प्रमाणावर प्रभाव पडतो. महिलांचे आरोग्य , ,त्यांचे शैक्षणिक यश व आर्थिक परिस्थिती इ. गोष्टींबद्दल त्यांना जाणीव करून दिली जाते .पुरुष - स्त्री असमानता हा चिंतेचा विषय आहे .यांच्यातील भेदभाव नष्ट करणे व शिक्षण ,रोजगार यात समान संधी प्रदान करणे यावर अवलंबून आहे .कारण हे आर्थिक विकासाला उत्तेजन देण्यासाठी महत्वाचे आहे. संयुक्त राष्ट्रांच्या मानवाधिकारांचे सार्वभौम घोषणापत्र हे लिंग

			समानता आहे हे विद्यार्थ्यांमध्ये रुजवले जाते .लिंग समानता निर्माण करण्यासाठी याचा अभ्यासात समावेश करण्यात आला आहे .जेणेकरून विद्यार्थ्यांनी व विद्यार्थ्यांमध्ये खुले व मैत्रीपूर्ण वातावरण तयार होईल .लैंगिक पक्षपातामुळे अनेक दुष्परिणाम समाजावर होतात हे दूर करण्यासाठी लैंगिक समानता हे मुल्ये विद्यार्थ्यांमध्ये रुजवणे आवश्यक आहे .
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वर्ग	विषय	घटक	मुल्य
एफ वाय बी ए		व्यावसायिक नितीमत्ता (जागतिकीकरण व भारतीय समाज)	उदारीकरण ,खासगीकरण आणि जागतिकीकरण ह्या महत्वाच्या प्रक्रीया समजल्या जातात .या प्रक्रियेत व्यवसायांना मुक्त आणि व्यापारी तत्वावर चालवले जाते .उद्योग, व्यवसाय ,व्यापार व शेती हे अर्थव्यवस्थेचे चार आधार स्तंभमानले जातात . म्हणूनच विद्यार्थ्यांना सध्याच्या या स्पर्धेच्या युगात जर अग्रक्रम किंवा टिकायचे असेल .तर व्यवसायाची नितीमत्ता जाणून घेऊन ती पाळणे अत्यावश्यक आहे .हेच मुल्य अंगिकारण्यासाठी मुलांना प्रोत्साहन या पाठातून देण्यात आले .
एफ वाय बी ए	एफ सी	मानवी मुल्य (मानवी हक्क )	मनुष्य हा समाजशील प्राणी असून ती समाजाचा एक घटक आहे.म्हणजेच मुल्य हि संकल्पना मनुष्याशी निगडीत आहे .समाजात वास्तव्य करणाऱ्या प्रत्येक व्यक्तीला सामाजिक नियमांचे पालन करणे आवश्यक असते. हे समजावून देण्यासाठी मानवी मुल्य संकल्पना विद्यार्थ्यांना समजून दिली ह्यासाठी प्रत्येक व्यक्तीला विद्यार्थ्यांना अंतःप्रेरणेनुसार जीवन जगण्याचा आणि आपला विकास साधण्यासाठी स्वातंत्र्य मिळाले पाहिजे .ही मुल्य सदैव जोपासणे गरजेचे आहे हे या घटकातून समजावून दिले.

एफ वाय बी ए	एफ सी	पर्यावरणीय स्थिरता (पर्यावरणशास्त्र)	पर्यावरण हि संकल्पना शास्त्रीय दृष्ट्या बहुव्यापक बहुसमावेशक व गुंतागुंतीची आहे . कोणत्याही सजीवाची निर्मिती , त्यांची वाढ ,विकास प्रजोत्पादन व अखेर मृत्यू या प्रक्रिया पूर्ण होण्यासाठी सभोवतालच्या घटकांची गरज असते . पर्यावरणात परिसंस्था हाही घटक महत्वाचा असतो . विकासाच्या नावाखाली ,तसेच वाढत्या लोकसंख्येमुळे नैसर्गिक संपदेचा अमयार्द वापर , निसर्गवर सतत्याने होणार आक्रमण, वनांचा-हास वन्यजीवसृष्टीचा विनाश यामुळे पर्यावरणाचा -हास करता यांबबता येईल यासाठी जनजागृती करणे .तसेच पर्यावरणाचे संरक्षण करणे ही संकल्पना विद्यार्थ्यांना समजून दिली
एफ वाय बी ए		लिंग समानता	स्वातंत्र्यपूर्व कालापासून ते आधुनिक काळापर्यंतच्या स्त्रियांच्या लढ्याने त्यांना सामाजिक ,राजकीय, आर्थिक शैक्षणिक अशा सर्वच क्षेत्रात सहभागी होण्याची प्रेरणा दिली .त्याचाच परिणाम म्हणून आज प्रत्येक क्षेत्रात पुरुषाच्या बरोबरीने स्त्री पुरुष समानता हे तत्त्व विद्यार्थ्यांमध्ये रुजवण्याच्या प्रयत्न केला.
एफ वाय बी ए	इतिहास	मानवी मुल्य (सामाजिक धार्मिक सुधारना चळवळ सुधारणा व पुनरुज्जीवन)	ब्राह्मसमाज, आर्यसमाज, रामकृष्ण मिशन,सत्यशोधक समाज ,आलिगड चळवळ, सिंगसभा चळवळ हे घटक शिकतात सर्व धर्म समभाव हे मुल्य समाजावले तसेच सत्य अहिंसा प्रेम,सदाचार,बंधुत ही मानवी मुल्य प्रत्येक धर्मात सांगितलेली आहेत ती विद्यार्थ्यांना समजून दिली.
एफ वाय बी ए	इतिहास	लिंग समानता (स्थिराची स्थिती)	स्त्रियांना परंपरागत जोखडातून मुक्त करण्यासाठी सामाजिक सुधारणावादी सामाजिक सुधारणावादी चळवळींचे मोठे योगदान आहे, भगिनी निवेदिता,मादाम कामा, अनिबेझंट या स्त्रियांचा प्रभाव विद्यार्थ्यांना समजावून दिला . स्त्री.पुरुष समानतेचे तत्त्व /मुल्य उदाहरणानुसार समजावून दिले
एस वाय बी ए	इतिहास	लिंग समानता	प्राचीन काळातील पूर्व वैदिक काळात स्त्रियांची स्थिती पुढारलेली होती स्त्रियांना पुरुषांबरोबरीचा अधिकार होता. स्त्री ही लढाईत भाग घेत. यावरून लिंग समानता हो घटक प्रकरणातून समजावून दिला आजच्या कळतही स्त्रीला मुक्त जीवन जगण्याची, तसेच पुरुषाच्या संधी आहेत. असा सकारात्मक दृष्टीकोन निर्माण



			करून दिला.पितृसताक
एस वाय बी ए	इतिहास	लिंग समानता (मध्ययुगीन मराठ्यांचा इतिहास)	<p>पितृसताक पद्धती इस्लामचे आक्रमण युरोपियन शक्तीचे आगमन मराठ्यांचा उदय.या सर्व घडामोडीचा उदय. या सर्व घडामोडीचा स्त्रीच्या जीवनावर मोठा परिणाम घडून आला.स्त्रीला दुय्यम दर्जा मिळून कठोर नियम व कायदे तयार झाले त्यामुळे हे सर्व शिकवताना पूर्वीच्या कालखंड व आत्ताचा कालखंड यातील भेदभाव समाजावून दिला.</p> <p>स्त्री ही एक अबला नसून सबला आहे. तसेच पुरणाच्या बरोबरीने तिने आपले कार्यक्षेत्र विस्तरले आहे हे उदा सहित स्वतः केले यातून लिंग समानता हे मुल्य समजावून सांगितले .</p>

SETH HIRACHAND MUTHA COLLEGE OF ARTS,COMMERCE AND SCIENCE  
**BACHELOR OF MANAGEMENT**

PRINCIPLES OF MARKETING	<p>To study basic concept in marketing applicable to business</p> <p>To critically analyse the marketing theories and concepts and understand their relevance in perspective to current business scenario in India</p> <p>To develop basic marketing skills among students in order to cater the needs of marketing industries</p>	<p>The content, assignments topics for POM are aligned to various learning outcomes</p> <ol style="list-style-type: none"> <li>1)what is marketing &amp; how it is used</li> <li>2)marketing function</li> <li>3)segmentation and targeting</li> <li>4)determine market strategy</li> <li>5)Apply principles of ethics</li> <li>6)MIS &amp; research</li> <li>7)consumer behavior</li> <li>8)positioning</li> <li>9)branding</li> </ol>
FC	<p>To develop proper thinking, perception learning.</p> <p>They were trained as to way to behavior being in a group.</p> <p>To make familiar with various motivation theories</p>	<p>The students are familiar with concepts of organization culture and process</p> <p>They developed the skill of working in team.</p> <p>The students are capable to handle stress.</p>
Information Technology	<p>To understand managerial decision making and to develop perceptive of major functional areas of MIS.</p> <p>to provide conceptual study of enterprise resource planning supply chain management customer relationship management key issues in implementation.</p> <p>to provide understanding about imaging MS technology is like ERP CRM SCM and trends in enterprise applications.</p>	<p>Students were able to understand the concept of mis it subsystems structure and reason of failure of MIS</p> <p>students were able to understand various concepts related to electronic commerce such as electronic resources planning supply chain management customer relationship management</p> <p>Students understood the meaning of DBMS data mining and data warehousing and its business applications</p>

	to learn and understand relationship between database management and data warehouse approaches the requirements and applications of data warehouse Dulhan outsourcing concept BPO/KPO industries their structures cloud computing.	Students understood the meaning of outsourcing its need the difference between BPO and keep you and cloud environment.
Service Marketing	To make students understand about approach of consumer towards service. To acquaint students about various technique used by organization for marketing the sector.	Students explored their knowledge by going through real case study of various companies dealing in services.  They became aware about need of being ethical in this sector
Retail management	To make student able to lead and motivate a team in corporate sectors. To have the comprehensive understanding of principles operational and strategic issues involved in the management of retail and service base enterprises.	Students learn decision making ability and sense of responsibility It provides student s the ability to understand and analyses sales figures
Event Marketing	To understand basic concept of event marketing To impart knowledge to learners about categories of events To understand segmenting, targeting & positioning in the context of event marketing	Nowadays, event marketing has a potential customers today looking for specific product/services. An event facilities face discussion with your customer helping them to establish a personal & intimate relationship with your brand then what is possible in the digital space.
Tourism Marketing	To develop tourism with dignity respect & nurture local cultures, marketing and promotion of tourism To minimize negative, social, economical	It aims at long term sustainable development by the execution of a number of strategies. Tourism marketing bring into focus a generic idea to increase competition, build an inclusive

	<p>&amp; environmental impacts of mass tourism which is sustainable</p> <p>To pressure and enhance local culture, art, handicraft, monuments &amp; other natural &amp; manmade tourist resources &amp; protect them from over commercialization &amp; over exploitation</p> <p>Course has a vast potential</p>	<p>industry by promoting closer integration of people &amp; develop &amp; maintain the environment</p> <p>This course creates opportunities for entrepreneurs to establish new services &amp; products or facilities. As tourism has become an important sector that has an impact on development of country economy.</p> <p>It creates job &amp; improve lives.</p>
Business Research Method	<p>To understand the basic concept of research for the purpose of future higher study.</p> <p>To know how to do project work.</p> <p>To know ethics and confidentiality of project for avoiding plagiarism.</p>	<p>Students are able to work on primary and secondary data and able to do their own project.</p> <p>Students are able to convert raw data in to information.</p> <p>Students are familiar with data processing and overall research process.</p>
International Marketing	<p>To study the knowledge of marketing concept and marketing environment across the national boundary.</p> <p>To know product decision, product identification and the pricing strategy.</p> <p>To know product promotion, distribution and marketing strategy in international marketing.</p>	<p>Students are well known about the concept of IMF, WTO, and GLOBALIZATION which help them in to actual working.</p> <p>Students got the knowledge of how to select product through segmentation and their costing.</p> <p>Students are well known about the global service and global market.</p>

Operation Research	The motto of this subject is to deal with quantitative models which can be applied under various problem situation. In this competitive word it an necessary quantitative tools through which a learner can make a better decision.	Operation Research helps the decision maker to take necessary timely action which is related to changing business environment. Operation research provide a tremendous opportunity for management student
CA	the main the main objective of the cost accounting to a sentiment of cost financial selling price proper recording and presentation of the cost data to manage for measuring efficiency and the cost control and its reduction this help management to take decision in manufacturing concept	student student will come to know how organisation on and use font and while working in organisation manufacturing concern how cost is to be maintained while making a product
Business law	The main objective of the business law in class to familiarize the student with business law and its interpretation while studying the subject business law students should aim at understanding the provision legal requirement effect and demotivate them to study law	the learner will understand the basic of long history course contractor cetera to understand the valid contract sale of goods patent and IPR
Business environment	to make students in part knowledge about the factors influencing business environment to educate them about mariya statutory bodies to regulate trading activities international level	the students are aware about the challenges faced by the international business Students are preparing themselves for facing the competition in the market

Media planning and management	<p>to impart knowledge on the media planning strategies and Management in current market situation</p> <p>To educate them about various promotion mix budgeting</p>	<p>the students are well versed about the buying process and the negotiation takes place</p> <p>Then got to know the emphasis of a research in conducting business</p> <p>the students are aware about the how measure and evaluate the impact of media with respect to business and undertaking</p>
Foundation of human skills	<p>To develop proper thinking perception learning</p> <p>They where train has two way to behaviour being in group</p> <p>To make them familiar with the various motivation theories</p>	<p>the students are familiar with the concept of organisational culture and process</p> <p>They develop the skill of working and team.</p> <p>The students are capable to handle stress</p>
FM	<p>Objective of introducing FM to students is to increase students ability to organise, analyse &amp; interpret numerical &amp; financial data. Students will develop attitude for detail &amp; accuracy &amp; sound decision making abilities.</p>	<p>Learners will be able to analyse complicated professional problems &amp; view a situation critically. Students will be able to take decisions by analysing the financial statement of company.</p>

Principles of management	<p>To inculcate the discipline and moral in the students</p> <p>to inculcate various skills like coordination planning organising implementation leadership quality</p> <p>Tu mota student to become a great manager</p>	<p>student will be able to identify the role which are expected to be fulfilled by the manager in the corporate sector</p> <p>student will learn to handle the pressure and the deadlines in the corporate sector</p>
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SETH HIRACHAND MUTHA COLLEGE OF ARTS, COMMERCE AND SCIENCE  
**BACHELOR OF MASS MEDIA**

Principles of marketing	<p>To inculcate the discipline and morale in students</p> <p>To inculcate various skills like coordination planning, organizing implementation, leadership quality etc.</p> <p>To mold the students to become great manager.</p>	<p>Students will be able to identify the roles which are expected to be fulfilled by the manager in the corporate sectors.</p> <p>Student will learn to handle pressure and deadlines in the corporate sector.</p>
Introduction to Literature	<p>To understanding the relation of literature and mass media .</p> <p>To give students overlook of Indian literature as well as British literature.</p> <p>To how know literature is useful for today's comparatives world and how its reflects</p>	<p>As a citizen of India student will give the protection to the literature by their knowledge.</p> <p>Students are able to use some knowledge of literature to highlight the news</p>
Media studies	<p>Students are to be made aware about interdisciplinary approach of media.</p> <p>Theories of medias are to be made familiar to the students.</p>	<p>The students can relate how media and social is related. Students are easily correlate the audience approach towards media and how media develops their thinking.</p>
Brand building	<p>The student should be educated by various brand strategies.</p> <p>They should be capable to measure the brand equity.</p>	<p>Student get to know the method of building ,measuring and manage brand.</p> <p>Student practically took efforts by making branding campaigns fir self-practice.</p>
Direct Marketing	<p>It helps student to define direct marketing</p> <p>To analyse a real world direct marketing</p>	<p>It helps students to build direct relationship with your customers. It improves customer</p>



	tactic for its effectiveness It enables promoting product & services that might not be known to consumers.	loyalty You can personalize promotion letters and offers to create an immediate link with your customers & increase their personal connection to your business
Organisational behaviour	to impart knowledge of the role of psychology factors and process at work and for faster management skill among students	this paper help student to analyse the behaviour of individual and group in organisation in terms of the key factor. it helps to analyse organisational behaviour issues in the content of OB theories models and concepts.
Public relations	two important knowledge of PR concept and explain the importance for the organisational image	it helps bmm children to understand the public relation concepts and theories In future student can make career in PR agency management
agency management	two family too familiar students with the different aspect of running and ad agency	it help student to develop an expert different case studies student should able to interpret understand the different types of the ad agency and their structure
Legal environment and advertising ethics	to provide a perspective on the legal environment in India to guide student of media through the various ethics connected to advertising	student of standard self-regulation ethics and the laws of advertising in India they also understood the unfair trade practices and competition act consumer rights and laws
Media psychology	to impart knowledge about concept of psychology theories related to learning behaviour and influence of media on children will make student to use it more sensibly	the student will be prepared for challenges in media field with the better understanding about the influence of media with respect to psychological effects It help student to develop a better perception towards the gender minorities

Radio and television	to make student familiar with the working of a to employee share media that means radio and television The student to get maid known about the techniques of using video camera	the students are aware about the role of radio and television in the field of media. They were aware about the story shoot ,short and on location shoot
Principles of management	To inculcate the discipline and moral in the students,to inculcate various skills like coordination planning organising implementation leadership quality Tu mota student to become a great manager	student will be able to identify the role which are expected to be fulfilled by the manager in the corporate sector student will learn to handle the pressure and the deadlines in the corporate sector
Contemporary issues	To understand & analyse some of the present day environment, political, economical & social concerns & issues. To highlight the importance of human rights and its implementation in India. To understand the present day problems and challenges and its implication on development	The main result of this course is to provide insight into the pressing issues of today's global community & it also removes misconception about human rights.
FM	Objective of introducing FM to students is to increase students ability to organise, analyse & interpret numerical & financial data. Students will develop attitude for detail & accuracy & sound decision making abilities.	Learners will be able to analyse complicated professional problems & view a situation critically. Students will be able to take decisions by analysing the financial statement of company.
MMR	To understand the role of research in the media & various research process. To know the data collection method & prepare questionnaire & how to use different measurement techniques.	Working in mass media would be easier & one can make a good future in it. Making projects & preparing questionnaire would be simple and easily can collect data.

SETH HIRACHAND MUTHA COLLEGE OF ARTS, COMMERCE AND SCIENCE  
**BACHELOR OF BANKING AND INSURANCE**

Information Technology	<p>To make students aware about the concept of ecommerce and its components and technologies.</p> <p>To familiarize students with the concept of e banking and electronic payment system</p> <p>To enable students to work in office automation softwares</p> <p>To create awareness among students about cyber security, cyber law and cyber crimes</p>	<p>Students understood the concept of ecommerce and its components in detail.</p> <p>Students understood the Ebanking and payment technologies.</p> <p>Students were able to work confidently on office softwares like work, excel and powerpoint.</p> <p>Students understood the safety technologies implemented in IT environment and importance of it.</p>
Direct Tax	<p>To gain knowledge about the Direct Tax Laws in force for the relevant previous year.</p> <p>To provide an insight in to procedural aspects for assessment of tax liability for various assesses.</p> <p>To gain knowledge about the direct tax laws in force for the relevant rules and principles emerging from leading cases</p> <p>To provide and insight into practical aspects and apply the provisions of laws to various situations.</p>	<p>To understand the basic principles underlying the Income tax Act</p> <p>To know about the different compute the taxable income of an assessee</p> <p>To analyze the assessment and representation before appropriate authorities under the Law</p> <p>To know what is tax, it is objectives, income tax and different heads under it.</p> <p>To know about exempted income</p> <p>Compute the total income of the assessee.</p>
CA	<p>the main the main objective of the cost accounting to a sentiment of cost financial selling price proper recording and presentation of the cost data to manage for measuring efficiency and the cost control and its reduction this help management to take decision in manufacturing concept</p>	<p>student student will come to know how organisation on and use font and while working in organisation manufacturing concern how cost is to be maintained while making a product</p>
MA	<p>The main objective of m a is to help the</p>	<p>the learner will be help when they visit to corporate</p>

	management to take a quality decision for the controlling the business activity effectively in fact Management accounting help to achieve the business objective	while how to increase efficiency of the company while making financial decision management should be done for future prospect while comparing past and present records
Corporate and securities law	the objective of corporate and securities law to familiarise the student with the basic bank and insurance law governing stock exchange a SEBI in the investor protection and depositories act	The student understand the basic laws of corporation,banking, insurance eligibility,conditions,internal audit penalty
FC	The objective of teaching contemporary rights of citizens is make the young generation aware of all the rights they will enjoy as consumer.further it also makes student aware of modern technologies & their implications. The students will also get knowledge about competitive exams & soft skills required for particular exams	Less manipulation & educated, fully aware citizen for our future India. Students can easily prepare for their future after getting knowledge of competitive exams & develop their soft skills.
CRM	To make clear definition of CRM & how does it plays a great role in handling any organisational activity. How to maintain our customer in banking and insurance sector. To understand efforts that needs to be taken in order to understand efforts that needs to be taken in order to understand & make our customers happy.	Better relations between customers & dealers.one can build High reputation & good profitability & get a loyal customers
MUTUAL FUNDS	As the market is volatile so the risk calculation is difficult. Especially in equities. Today mutual fund is playing a significant role in managing the market. So as per the growing demand of market today mutual fund investment is increasing day by day. So the objective of introducing mutual fund at banking & insurance	Mutual fund is a platform to investment for common man to any investor. So the growing demand shows the need & essence of these subject as tremendous employment opportunity is available in the market

	level is to impart knowledge.	
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SETH HIRACHAND MUTHA COLLEGE OF ARTS,COMMERCE AND SCIENCE

**BACHELOR OF ACCOUNTING AND FINANCE**

INNOVATIVE FINANCIAL SERVICES	<p>To introduce basic concepts , functions process techniques and create an awareness f the role, functions and functioning financial services</p> <p>To give an overview of emerging financial services in the light of globalization</p> <p>To familiarize the learner with the fundamental aspects of various issues associated with various financial services about structure of regulatory bodies like SEBI</p>	<p>Students are familiar with different terms emerging in financial services</p> <p>Students will use knowledge while purchasing the commodities on installment basis</p> <ul style="list-style-type: none"> <li>· Different housing finance schemes policies implemented in our country and how to approach to get housing finance</li> <li>· To aware about the credit cards, debit cards and their advantages and disadvantages and also identify credit rating process , credit rating symbols, and different credit rating agencies in India</li> <li>· Students easily relate working of stock markets fluctuations</li> </ul>
Information Technology	<p>To familiarize students with the basics of computers, hardware parts, software types and networking technologies.</p> <p>To develop the office management skills among the students with the help of basic and advanced office management softwares</p> <p>To develop an understanding of working and use of web and internet and various components of e-commerce.</p>	<p>Students were able to remember and identify the different components of a computer hardware and software.</p> <p>Students were able to work on office management softwares like word, excel, powerpoint and completed their projects.</p> <p>Students understood the power of web and internet technology and the importance of surfing the net safely and confidently.</p>

Direct Tax	<p>To gain knowledge about the Direct Tax Laws in force for the relevant previous year.</p> <p>To provide an insight in to procedural aspects for assessment of tax liability for various assesses.</p> <p>To gain knowledge about the direct tax laws in force for the relevant rules and principles emerging from leading cases</p> <p>To provide and insight into practical aspects and apply the provisions of laws to various situations.</p>	<p>To understand the basic principles underlying the Income tax Act</p> <p>To know about the different compute the taxable income of an assessee</p> <p>To analyze the assessment and representation before appropriate authorities under the Law</p> <p>To know what is tax, it is objectives, income tax and different heads under it.</p> <p>To know about exempted income</p> <p>Compute the total income of the assessee.</p>
Information Technology	<p>To familiarize the students with the modern system of business process, automation of process, and process management.</p> <p>To make students aware about the computerised accounting systems, its uses and accounting softwares</p> <p>To develop an understanding about the concept of MIS, recording, reporting, information flow, guidelines, etc in MIS</p>	<p>4. Students understood the concept of business process, its management and automation, benefits and risks, and challenges.</p> <p>5. Students developed the skills in various accounting softwares and understood its benefits.</p> <p>6. Students understood the importance of information flow in organisation, its management and advantages, challenges for businesses.</p>
Business Communication	<p>To know the importance of communication in day to day life and even the corporate life of the student.</p> <p>To know how communication can help to achieve desired performance of organization on the basis of theoretical knowledge of body language , interview, OHP, meting's, PR and group discussion and even though how to handle the company affairs through trade latter's.</p>	<p>Students are more aware about the knowledge, confidence, oral as well as written communication.</p> <p>Students are taking whole heartedly participation in interview and group discussion session.</p> <p>And they come to know that how to maintain the records of company through reports and summarization.</p>

Indirect Tax	<p>To provide basic knowledge and equip students with application and principles and provisions of GST</p> <p>To give the students a general understanding of the GST law in the country</p> <p>To provide an insight into practical aspects of GST and equip them to become tax practitioners.</p>	<p>To discuss about the GST, its advantages and disadvantages and constitutional amendments. Explain about different models of GST and comprehensive structure of GST in India.</p> <p>To discuss about the various central and state level. Indirect taxes subsumed under GST.</p> <p>To analyze the Intra and Interstate transaction</p> <p>Identify cases where CGST and SGST will work simultaneously</p> <p>Identify whether a transaction is taxable under CGST, IGST, SGST and how it's levied.</p>
CA	<p>the main the main objective of the cost accounting to a sentiment of cost financial selling price proper recording and presentation of the cost data to manage for measuring efficiency and the cost control and its reduction this help management to take decision in manufacturing concept</p>	<p>student student will come to know how organisation on and use font and while working in organisation manufacturing concern how cost is to be maintained while making a product</p>
MA	<p>The main objective of m a is to help the management to take a quality decision for the controlling the business activity effectively in fact Management accounting help to achieve the business objective</p>	<p>the learner will be help when they visit to corporate while how to increase efficiency of the company while making financial decision management should be done for future prospect while comparing past and present records</p>
Research methodology	<p>The objective of this Samsung to enable the student to obtain the basic knowledge and skill required in the field of research in accounting and finance</p>	<p>the importance of research methodology in accounting and financial student to develop critical reasoning skill and helpful in higher education</p>
FC	<p>The objective of teaching contemporary rights of citizens is make the young generation aware of all the rights they will enjoy as consumer.further it also makes student aware</p>	<p>Less manipulation &amp; educated, fully aware citizen for our future India. Students can easily prepare for their future after getting knowledge of competitive exams &amp; develop their soft skills</p>

	of modern technologies & their implications. The students will also get knowledge about competitive exams & soft skills required for particular exams	
Business law	The main objective of the business law in class to familiarize the student with business law and its interpretation while studying the subject business law students should aim at understanding the provision legal requirement effect and demotivate them to study law	the learner will understand the basic of long history course contractor cetera to understand the valid contract sale of goods patent and IPR
FA	The objective of financial accounting in BAF is to prepare financial statements accordance with appropriate standard & interpreting the business implications of financial statement information.	During the course learner is able to recognize & understand ethical issues related to the profession also develop the ability to use a basic accounting systems to create ( record, classify & summarize) the data needed to solve a variety of audience
FM	Objective of introducing FM to students is to increase students ability to organise, analyse & interpret numerical & financial data. Students will develop attitude for detail & accuracy & sound decision making abilities	Learners will be able to analyse complicated professional problems & view a situation critically. Students will be able to take decisions by analysing the financial statement of company.
ECONOMICS	The objective of introduction of economics is to create awareness about the fundamental theory of economics like demand, supply at micro level. Even types of production at macro level computation of national income, public revenue, Indian agriculture & its policies, structural, monetary & fiscal policies, capital market	During the course of graduation the learner is in position to know the actual behaviour of market, mechanism. A learner can understand the basic economic concept while reading newspaper & understanding the government fiscal & monetary policies which will help in cracking the interviews



# COURSE OUTCOMES

## Syllabus Objective and Outcomes OF B.Sc (Computer Science)

SYLLABUS	PAPER	OBJECTIVE	OUTCOMES
<b>T.Y.B.Sc</b> <b>Program: Bachelor of Science</b> <b>Course: Computer Science</b> <b>Credit Based Semester and Grading System with effect from Academic Year 2018-2019</b> <b>SEMESTER -V</b>	<b>P-II (ELECTIVE)</b> <b>Linux Server Administration</b>	Demonstrate proficiency with the Linux command line interface, directory & file management techniques, file system organization, and tools commonly found on most Linux distributions. Effectively operate a Linux system inside of a network environment to integrate with existing service solutions. Demonstrate the ability to troubleshoot challenging technical problems typically encountered when operating and administering Linux systems.	Learner will be able to develop Linux based systems and maintain. Learner will be able to install appropriate service on Linux server as per requirement. Learner will have proficiency in Linux server administration.

	<b>P-II Software Testing and Quality Assurance</b>	To provide learner with knowledge in Software Testing techniques. To understand how testing methods can be used as an effective tools in providing quality assurance concerning for software.To provide skills to design test case plan for testing software	Understand various software testing methods and strategies. Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.
	<b>Information and Network Security</b>	To provide students with knowledge of basic concepts of computer security including network security and cryptography.	Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application. Understand various protocols for network security to protect against the threats in a network

	<b>Web Services</b>	<p>To understand the details of web services technologies like SOAP, WSDL, and UDDI. To learn how to implement and deploy web service client and server. To understand the design principles and application of SOAP and REST based web services (JAX-WS and JAX-RS). To understand WCF service. To design secure web services and QoS of Web Services</p>	<p>Emphasis on SOAP based web services and associated standards such as WSDL. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services</p>
	<b>Game Programming</b>	<p>Learner should get the understanding computer Graphics programming using DirectX or OpenGL. Along with the VR and AR they should also aware of GPU, newer technologies and programming using most important API for windows.</p>	<p>Learner should study Graphics and gaming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn.</p>

Semester-VI	<b>Wireless Sensor Networks and Mobile Communication</b>	In this era of wireless and adhoc network, connecting different wireless devices and understanding their compatibility is very important. Information is gathered in many different ways from these devices. Learner should be able to conceptualize and understand the framework. On completion, will be able to have a firm grip over this very important segment of wireless network.	After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.
	<b>Cloud Computing</b>	To provide learners with the comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture, implantations and applications. To expose the learners to frontier areas of Cloud Computing, while providing sufficient foundations to enable further study and	After successfully completion of this course, learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open source technology. Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc. They should explain the core issues of cloud computing such as security, privacy, and interoperability.

		research.	
	<b>Information Retrieval</b>	<p>To provide an overview of the important issues in classical and web information retrieval. The focus is to give an up-to- date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents and of methods for evaluating systems.</p>	<p>After completion of this course, learner should get an understanding of the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.</p>

	<b>Data Science</b>	Understanding basic data science concepts. Learning to detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization. Making aware of how to address advanced statistical situations, Modeling and Machine Learning	After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted.
	<b>Ethical Hacking</b>	To understand the ethics, legality, methodologies and techniques of hacking.	Learner will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.

Syllabus Objective and Outcomes			
SYLLABUS	PAPER	OBJECTIVE	OUTCOMES
<b>T.Y.B.Sc</b> <b>Program: Bachelor</b> <b>of Science</b> <b>Course:</b> <b>Information</b> <b>Technology</b> <b>Credit Based</b> <b>Semester and</b> <b>Grading System</b> <b>with effect from</b> <b>Academic Year</b> <b>2018-2019</b> <b>SEMESTER -V</b>	<b>Software Project</b> <b>Management</b>	To Understand the fundamental principles of Software Project management & will also have a good knowledge of responsibilities of project manager and how to handle these	1.Students get familiar with the different methods and techniques used for project management. 2. By the end of this course student will have good knowledge of the issues and challenges faced while doing the Software project Management and will also be able to understand why majority of the software projects fails and how that failure probability can be reduced effectively.      3. Will be able to do the Project Scheduling, tracking, Risk analysis, Quality management and Project Cost estimation using different techniques

	<b>Internet of Things</b>	<p>The Internet of Things (IoT) is aimed at enabling the interconnection and integration of the physical world and the cyber space. It represents the trend of future networking, and leads the third wave of the IT industry revolution.</p>	<p>In this article, we first introduce some background and related technologies of IoT and discuss the concepts and objectives of IoT. Then, we present the challenges and key scientific problems involved in IoT development. Finally, we outline future research directions.</p>
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### **Advanced Web Programming**

Students review client-side web technologies used for static webpages and interactive web applications on clients. Students examine advanced topics in Hyper Text Markup Language, Cascade Style Sheet and JavaScript for interactive web applications that use rich user interfaces. Students then continue with server-side web technologies for dynamic web applications, such as server-side scripting programming, database access for three-tier data-driven applications, and asynchronous communication between client and server for fast partial update of client windows.

1. Understand the major areas and challenges of web programming.
2. Distinguish web-related technologies.
3. Use advanced topics in HTML5, CSS3, JavaScript
4. Use a server-side scripting language, PHP
5. Use a relational DBMS, MySQL
6. Use PHP to access a MySQL database.
7. Design and implement
  - o typical static web pages and interactive web applications.
  - o dynamic web applications.
  - o web applications that use asynchronous communication.
  - o secure 3-tier data-driven web applications.

### **Enterprise Java**

The objective is to equip the students with the advanced feature of contemporary java which would enable them to handle complex programs relating to managing data and processes over the network. The major objective of this course is to provide a sound foundation to the students on the concepts, precepts and practices, in a field that is of immense concern to the industry and business.

- Identify advance concepts of java programming with database connectivity.
- Design and develop platform independent applications using a variety of component based frameworks
- Able to implement the concepts of Hibernate, XML& EJB for building enterprise applications.

<b>SEMESTER VI</b>	<b>Software Quality Assurance</b>	<p>1 Basic software debugging methods. 2. White box testing methods and techniques. 3. Black Box testing methods and techniques. 4. Designing test plans. 5. Different testing tools (familiar with open source tools) 6. Quality Assurance Model.</p>	<p>1.. Investigate the reason for bugs and analyze the principles in 2. software testing to prevent and remove bugs. 3. Implement various test processes for quality improvement 3. Design test planning. 4. Manage the test process 5. Apply the software testing techniques in commercial environment 6. Use practical knowledge of a variety of ways to test software and an understanding of some of the tradeoffs between testing techniques.</p>
	<b>Security in Computing</b>	<p>This course focusses on the models, tools, and techniques for enforcement of security with some emphasis on the use of cryptography. Students will learn security from multiple perspectives</p>	<p>Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify &amp; analyze particular security problems for a given application. Understand various protocols for network security to protect against the threats in a network</p>

	<b>Business Intelligence</b>	<p>Students will try to learn:</p> <ol style="list-style-type: none"> <li>1. To introduce the concept of data Mining as an important tool for enterprise data management and as a cutting edge technology for building competitive advantage.</li> <li>2. To enable students to effectively identify sources of data and process it for data mining.</li> <li>3. To make students well versed in all data mining algorithms, methods of evaluation.</li> <li>4. To impart knowledge of tools used for data mining</li> </ol>	<p>Students will able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate an understanding of the importance of data mining and the principles of business intelligence</li> <li>2. Organize and Prepare the data needed for data mining using pre preprocessing techniques</li> <li>3. Perform exploratory analysis of the data to be used for mining.</li> <li>4. Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets.</li> </ol>
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	<b>Geographic Information Systems</b>	<ol style="list-style-type: none"> <li>1. Maximize the efficiency of decision making and planning.</li> <li>2. Provide efficient means for data distribution and handling</li> <li>3. Elimination of redundant database-minimize duplication.</li> <li>4. Capacity to integrate information from many sources</li> <li>5. Complex analysis/queries involving geographical reference data to generate new information.</li> </ol>	<ol style="list-style-type: none"> <li>1. Demonstrate proficiency in the use of GIS tools to create maps that are fit-for-purpose and effectively convey the information they are intended to.</li> <li>2. Effectively communicate and present project results in oral, written, and graphic forms.</li> <li>3. list some of the uses and benefits spatial technologies offer in the area of highway safety.</li> <li>4. list some of the uses and benefits spatial technologies offer in the area of highway safety.</li> <li>5. explain how traffic safety analysis is moving beyond traditional approaches which have focused solely on historic crash data</li> </ol>
	<b>Cyber Laws</b>	<ol style="list-style-type: none"> <li>1. The main objective of the IPR is to make the students aware of their rights for the protection of their invention</li> <li>2. To get complete knowledge of IPR and its types like patents.</li> <li>3. To get awareness of Cyber Law ,digital certificate ,domain name system and issues in cyber world.</li> </ol>	Learners get awareness of acquiring the patent and copyright for their innovative works. They also get the knowledge of patents, trademarks ,copyrights, digital signature, DNS, Cyber laws, Information Technology Act 2000 and related issues.

**F.Y.- BSC.**  
**(ZOOLOGY)**

**1) Wonders of Animal World**

**Objective:** To take learners through a captivating journey of hoarded wealth of marvellous animal world.

**Desired Outcome:** Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology

**2) Biodiversity and its Conservation**

**Objective:** To orient learners about rich heritage of Biodiversity of India and make them understand significance of its conservation.

**Desired Outcome:** Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation

**3) Animal Biotechnology**

**Objective:** To acquaint learners to the modern developments and concepts of Zoology highlighting their applications aiming for the benefit of human being.

**Desired Outcome:** Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box.

#### **4) Population ecology:**

**Objective:** To facilitate the learning of population ecology, its dynamics and regulatory factors important for its sustenance.

**Desired Outcome:** This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.

#### **5) Ecosystem:**

**Objective:** To impart knowledge of different components of ecosystem and educate about essentials of coexistence of human beings with all other living organisms.

**Desired Outcome:** Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.

#### **6) Nutrition and Health**

**Objective:** To make learners understand the importance of balanced diet and essential nutrients of food at different stages of life.

**Desired Outcome:** Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.

#### **7) Common Human Diseases and Disorders .**

**Objective:**To educate learners about causes, symptoms and impact of stress related disorders and infectious diseases.

**Desired Outcome:** Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.



## Renewable energy resource

*Objective*-The objective is to impart knowledge about designing, promoting and implementing renewable energy solutions within society's rapidly-changing energy-related industry cluster and there ever increasing demands. Graduates will have a fundamental understanding of energy resources and a sense of social responsibility for the implementation of sustainable energy solutions.

### *Desired outcome-*

1. An ability to apply knowledge of science, and engineering in betterment of society
2. An ability to design and conduct experiments, as well as to analyse and interpret data for solving the crisis.
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
4. An ability to function on multi-disciplinary teams.

## Green Chemistry

### *Objective-*

The objective of green chemistry is make students understand the principle of the sustainable development and an eco-friendly approach Green chemistry is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances. Green chemistry applies across the life cycle of a chemical product, including its design, manufacture, use, and ultimate disposal.

### *Desired outcome-*

Green chemistry aims at making chemistry more energy efficient, at reducing waste disposal, and/or producing innovative products with less consumption of natural resources. Alternative processes and reaction pathways are designed, new materials and products are developed contributing to meet our needs today, but with taking more care of the interests of future generation

