S. G. V. C. Vidya Prasarak Trust's,

Matoshri Gangamma Veerappa Chiniwar Arts, Commerce & Science College,

MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)

(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)

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Ref. No. : ....

Date : 2023-24

1.3.1. The college is conscious about the cross cutting issues such as gender discrimination, environment sustainability, human values and professional ethics 2023-24.

Sl.No	Name of the programme	Semester	Course Title	Cross cutting issues
1	BA/ BSC/ B.Com	I & II	Environment Studies	Environmental issues and human values
2	BA/ BSC/ B.Com	I & II	Digital Fluency	Skill Enhancement Course
3	BA/ BSC/ B.Com	III & IV	Indian Constitution	Equality Civics Sense
4	BA/ BSC/ B.Com	III	Artificial Intelligence	Skill Enhancement
5	BA/ BSC/ B.Com	III	FEIA Financial Education & Investment Awareness	FEIA Financial Education & Investment Awareness
6	BSC/ B.Com	V	Cyber Security	Cyber Security
7	BA	V	Employability Skills	Employability Skills

The Cross Cutting issues pertaining to professional ethics, gender, human values, environment and sustainability are highlighted in some of subjects.

- **Professional Ethics:** The institution has a well drafted code of ethics for students and non-teaching staff. The rules and code of conduct of the institution are published in the college campus. The institution as a well constituted discipline in the college premises.

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- **Gender Equality:** The gender equality forum institution facilitates the emancipation and protection for women. A gender campaign is selected every year by the gender forum for women empowerment.

- **Human Values:** The college aims to propagate the visions and principles of renowned social worker, late Smt. Matoshree Gangamma Veerappa Chiniwar, Late Shri. Mahant Swamiji, Chittaragi Samsthana Math, Ilakal and Late Shri. Shankarappa Virupakshappa Tadasad. The hospital often hosts events including Blood Donation Camps, NCC, NSS, Scouts and Guides and Youth Red Cross Volunteers are assigned to participate in community events to help pupils understand their social responsibilities.

- **Environment and Sustainability:** The Institution has regularly special lectures on environmental consciousness, environment studies as a compulsory course for all programmes aims to sensitize students about various threats to the environment and guiding them for building self sustainable environment. College is surrounded with good numbers of plants, trees including medicinal plants and regularly conduct awareness programmes on greenery initiatives within the campus and also in association with forest department, regularly invites experts environmentalist, academicians etc,. to deliver special lecture on cross cutting issues. College has Eco-Club regularly promote ethos of conservation of water by minimizing the use of water. The college is regularly conducting Soil and Water tests which is useful for surrounding farmers.

ENVIRONMENTAL STUDIES

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
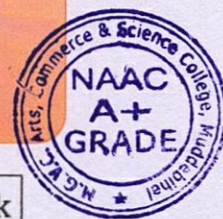
Number of Theory Credits	Number of lecture hours + field work
2	45

	Content of ENVIRONMENTAL STUDIES – AECC	45 Hours
Unit 1	**Introduction to Environmental Studies:** Multidisciplinary nature of environmental studies. Scope and importance; Concept of sustainability and sustainable development.	15
	Ecosystems: What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:	

	a) Forest ecosystem
	    b) Grassland ecosystem
	    c) Desert ecosystem	

	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	
	Natural Resources: Renewable and Non-Renewable Resources	
	Land resources and land-use change; Land degradation, soil erosion and desertification.	
	Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.	
	Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (International & Inter-state).	
	Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	
Unit 2	**Biodiversity and Conservation:** Levels of biological diversity: Genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hotspots.	12
	India as a mega-biodiversity nation; Endangered and endemic species of India.	
	Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of	

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		biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value. **Environmental Pollution:** Types, causes, effects and controls; Air, water, soil and noise pollution. Nuclear hazards and human health risks. Solid waste management, Control measures of urban and industrial waste. Pollution case studies.	
Unit 3		**Environmental Policies and Practices:** Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and Control of Pollution) Act; Wildlife (Protection) Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD). Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context. **Human Communities and the Environment** Human population growth: Impacts on environment, human health and welfare. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: Floods, Earthquake, Cyclones and Landslides. Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi). Field work (5 hours)	18

Reference

Bharucha, E. (2015). *Textbook of Environmental Studies.*

Carson, R. (2002). *Silent Spring.* Houghton Mifflin Harcourt.

Climate Change: Science and Politics. (2021). *Centre Science and Environment,* New Delhi.

Digital Fluency

Skill Enhancement Course-1

Course Content

Semester: B.Com/B.Sc/BCA 1st Semester and BA/BBA/BSW 2nd Semester

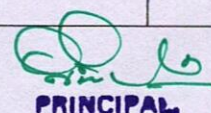|	
Course Title: **Digital Fluency**	Course Credits: 2
Total Contact Hours: 15 hours of theory and 30 hours of practicals	Duration of Exam: 1 hour
Formative Assessment Marks: **25 marks**	Summative Assessment Marks: **25 marks**

Course Outcomes (COs):

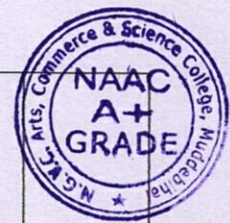After completing this course satisfactorily, a student will be able to:

- To perform and get knowledge about applications, virtual learning and internetfundamentals.
- Develop holistically by learning essential skills such as effective communication, problem-solving, design thinking, and teamwork.

Course Content:

Content	Hours
Unit – 1	
Introduction to Computer and Emerging Technology: An Overview of Computer, Block Diagram of Computer, Evolution and Generations of Computers, Software and its types, Operating Systems, types of operating systems, major functions of the operating systems. Introduction to emerging technologies and its applications- Artificial Intelligence, IoT, Cloud Computing, Machine learning, Big Data.	05
Unit – 2	
Office Automation Tools and Google Apps : **Office automation tools :** MS-Word, MS-Excel and MS-Power point,creating an email-ID, working with e-mail, addressing with cc and bcc, **Working with Google Apps**: Google forms: Creating and analysis of response, Google Docs – creating Google Docs and posting, Google Sheets- Creating and Editing, Google Drive- uploading and sharing of files and folders, working with Google Meet.	05
Unit – 3	
E-learning, E-commerce and Security Aspects: **E-learning** -Introduction to e-learning platforms such as Swayam and MOOC. **E-Commence:** Basic Web Commerce Concept, **E- payment methods:** E-cash Payment System, Credit Payment System, Types of Electronic Payment Systems: Credit Card • Debit Card • Smart Card • E-Money •Electronic Fund Transfer (EFT). **Cyber Security:** Threats and Prevention, Viruses and its types, Antivirus, HTTP vs HTTPS, Firewall, Cookies, Hackers and Crackers.	05

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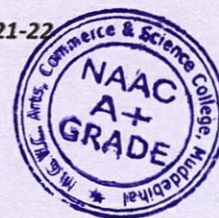|	
➢ **Laboratory Activities (Perform the following assignments):** • Identifying the configuration and version of a computer system (PC), laptop, and a mobile phone. • Observing files on OS booting • Finding the background and foreground processes on Task manager. • Translating Kannada word into English in Google embedded with AI. • Use Google assistant on any android smartphone to dictate commands and to launch apps • Downloading your e-aadhar. • Creating resume in Word processor. • Creating powerpoint presentation for your college introduction and apply transitions and animations. • Create your marksheet in Microsoft Excel. • Simple computation using spread sheet. • Create an email-ID and sending and forwarding. • Attaching files and downloading files in email. • Creating a Google form and send it to Ten users. • Scheduling a virtual meet and invite peoples to join the Google meet. • Creating a hotspot from a mobile phone, and allowing others to use the hotspot. • Sign in and create account e-learning platforms such as Swayam and MOOC. • Creating an account in the railway reservation website, IRCTC, and finding trains from Belagavi to Bangalore. • Demo of online order placing for book using flipkart/ amazon, etc. • Install any antivirus app in your mobile and scan. • Demonstrate unsecured (HTTP) and secured (HTTPS) websites.	30

Text Books:

1. Fundamentals of computers - V. Rajaraman - Prentice- Hall of India.
2. Computer Fundamentals - P. K. Sinha Publisher: BPB Publications.

Reference Links:

- Digital 101 Course offered by Future Skill Prime Platform
  https://learn.futureskillsprime.in/
- Operating Systems:
  https://ftms.edu.my/v2/wpcontent/uploads/2019/02/csca0101_ch06.pdf
- Nine Dots in Google.com
- Gmail Creating links:
  https://clubrunner.blob.core.windows.net/00000000961/en-ca/files/homepage/how-to- create-a-gmail-account/HowtoCreateaGmailAccount.pdf
- Google Forms: https://pdst.ie/sites/default/files/Google%20Drive_1.pdf
- Google Meet: https://edvance.hawaii.hawaii.edu/wp-content/uploads/Google-Meet-Tutorial-Getting-Started-and-Recording-a-Lecture.pdf
- Swayam: https://www.aicte-india.org/bureaus/swayam
- Security Aspects - https://ncert.nic.in/textbook/pdf/lecs112.pdf
- E-Commence: http://www.aagasc.edu.in/cs/msccs/ECommerce%20Unit%201.pdf
- E- payment methods:
  http://www.dspmuranchi.ac.in/pdf/Blog/e%20business%20UnitIII,%20%202020.pdf

INDIA AND INDIAN CONSTITUTION

Ability Enhancement Compulsory Courses (AECC)	
Course Title: INDIA AND INDIAN CONSTITUTION	
Total Contact Hours: **45**	Course Credits: 3
No. of Teaching Hours/Week:3	Duration of ESA/Exam: 2 **Hours**
Formative Assessment Marks: 40	Summative Assessment Marks: **60+40=100**

Course Objective

The purpose of the course is to help students to learn and explain the journey of India as a republic. They will, through this paper learn to contextualise the depth of India as a nation with its diverse socio-political culture, its philosophical traditions, values and Ideals. It will give them knowledge to expound the breadth of freedom struggle in various parts of India, its significance in nation building and the sacrifices made both by its leaders and followers. It will help them to demonstrate their knowledge regarding the efforts made at working towards a constitution as India's conscience cherishing the values of Justice, Liberty, Equality and Fraternity. Consequently it will enable students to contextualise the powers and functions of various offices under the Constitution. It will help them determine the role and responsibilities of citizens as enshrined in the Constitution, offering insights in to the contributions of personalities like Gandhiji, Dr B.R.Ambedkar and Jawahar Lal Nehru, Bal Gangadhar Tilak, the values tolerence, equality of treatment, scientific secularism and swarajya and the processes of policymaking keeping national wellbeing in the forefront. This paper will enable students to illustrate how vibrant our Constitution is, how farsighted were its makers and how efficient are the various institutions that are functioning under it.

Learning outcomes

Upon completion of this course students will be able to—

- Explain the philosophy and the structure of the Constitution.

- Measure the powers, functions and limitations of various offices under the Constitution.
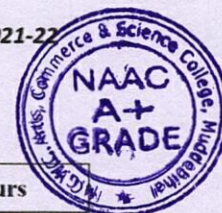
  Demonstrate the values, ideals and the role of Constitution in a democratic India.

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Unit	Contents of Course:	45 Hours
Unit-I	**Background to the study of Indian Constitution****	
	Chapter 1: Philosophical and Political foundations of India: Meaning of Dharma and Danda. Nationalistic perspectives of Raja Rammohun Roy, Swamy Vivekananda and Sri Aurobindo	**6 Hours**
	Chapter 2: Political values and Ideals during freedom struggle: Gandhi: Truth and Non Violence, Satyagraha and Swadeshi, **Tilak** :Swaraj **Deen Dayal Upadhyay:** Integral Humanism **Vinoba Bhave.** Voluntarism	**5 Hours**
	Chapter 3: Political Contribution of Regional freedom struggle: Kittur Rani Chennamma, Hardekar Manjappa, Madikeri Peasants, Halagali Bedas.	**4 Hours**
Unit-II	**Constitutional Development and its Philosophy**	
	Chapter- 4: Historical background of Constitutional development in India – Indian Councils Act of 1861 and 1892, Features Government of India Act 1909,1919,1935 Indian Independence Act 1947	**5 Hours**
	Chapter 5: Philosophy and features of Indian Constitution - Preamble*, Salient features** Dr B.R. Ambedkar and Nehru's contribution in making of the Constitution.	**5 Hours**
	Chapter- 6: Working of the Constitution - Fundamental Rights, Union-State Relations, Amendment procedures to the Constitution, Parliamentary committees' nature purpose and classifications	**5 Hours**

Course Title: **Artificial Intelligence**	Course Credits: 2
Total Contact Hours: 13 hours of theory and 26 hours of practical	Duration of ESA: 01 Hour
Formative Assessment Marks: **20 marks**	Summative Assessment Marks: 30 marks

Course Outcomes (COs):

At the end of the course, students will be able to:

- Appraise the theory of Artificial intelligence and list the significance of AI.
- Discuss the various components that are involved in solving an AI problem.
- Illustrate the working of AI Algorithms in the given contrast.
- Analyze the various knowledge representation schemes, Reasoning and Learning techniques of AI.
- Apply the AI concepts to build an expert system to solve the real-world problems.
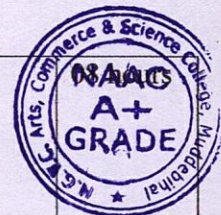
Course Content (Artificial Intelligence)

	Details of topic	Duration
Course – 1 – Azure AI Fundamentals (AI-900)	AI-900 pathway consists of 5 courses and 2 reading material: i. Introduction to AI on Azure ii. Use visual tools to create machine learning models with Azure Machine Learning iii. Explore computer vision in Microsoft Azure iv. Explore natural language processing v. Explore conversational AI vi. Tune Model Hyperparameters - Azure Machine Learning (Reading) vii. Neural Network Regression: Module Reference - Azure Machine Learning (Reading	05 hours
Practical	1. Prepare the data 2. Model the data 3. Visualize the data 4. Analyse the data 5. Deploy and maintain deliverables	13 hours

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Course – 2 – Data Analyst Associate (DA-100)	DA-100 pathway consists of 5 courses and 2 reading material: 1. Get started with Microsoft data analytics 2. Prepare data for analysis 3. Model data in Power BI 4. Visualize data in Power BI 5. Data analysis in Power BI 6. Manage workspaces and datasets in Power BI 7. Key Influencers Visualizations Tutorial - Power BI 8. Smart Narratives Tutorial - Power BI | Microsoft Docs	
Practical	1. Describe Artificial Intelligence workloads and considerations 2. Describe fundamental principles of machine learning on Azure 3. Describe features of computer vision workloads on Azure 4. Describe features of Natural Language Processing (NLP) workloads on Azure	13 hours

References to learning resources:

1. The learning resources made available for the course titled "Azure AI Fundamentals (AI-900) and Data Analyst Associate (DA-100)." on Future Skills Prime Platform of NASSCOM.

Pedagogy

Flipped classroom pedagogy is recommended for the delivery of this course.
For every class:

1. All the faculty who takes this class should go for a Faculty Development Program on these before starting the session.
2. Faculty needs to introduce this course to the students then students need to start learning from Future Skills PRIME platform.
3. Faculty also needs to explain the course outcomes and needs of the course and why it is needed for the students.
4. Then students need to start learning online after registering on the platform.
5. Classroom activities are designed around the topic of the session towards developing better understanding, clearing doubts and discussions of high order thinking skills like application, analysis, evaluation, and design.
6. Every theory class ends with announcement of exercise for practical activity of the week.

Exercises:

Practical Exercises	Weightage in marks
After each chapter students' needs to complete exercises based on the learning in Azure environment.	No Weightage (But students need to complete it to move to next chapter) .

Course Content
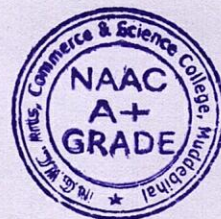
Semester

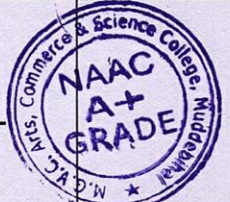|	
Course Title: **Financial Education and Investment Awareness**	Course Credits: 2
Total Contact Hours: **15 Hours of Theory and** **30 Hours of Practical Sessions**	Duration of ESA: **90 Minutes**
Formative Assessment Marks: **20**	Summative Assessment Marks: **30**
Model Syllabus Authors: **NSE Academy and Karnataka State Higher** **Education Council (through Model Curriculum** **Committee for Commerce and Management)**	

Course Outcomes

The Course aims to:
1. Provide the foundations for financial decision making
2. List out various saving and investment alternatives available for a common man
3. Give a detailed overview of stock markets and stock selection
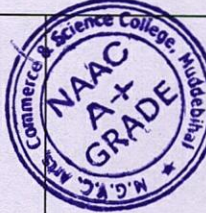4. Orient the learners about mutual funds and the criteria for selection

Course Articulation Matrix

Program Outcomes / Course Outcomes	1	2	3	4	5	6	7	8	9	10	11	12
1. Provide the foundations for financial decision making												
2. List out various saving and investment alternatives available for a common man												
3. Give a detailed overview of stock markets and stock selection												
4. Orient the learners about mutual funds and the criteria for selection												

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Module No.	Theory Content under the Module	Duration
One	**Foundations for Finance** **Introduction to Basic Concepts:** Understand the need for financial planning – basic concepts – life goals and financial goals – format of a sample financial plan for a young adult **Economics:** Meaning – scope – key concepts influencing decision making both micro & macro **Banking in India:** Types of Bank Deposits, Deposit Insurance (PMJDY). Traditional and New Banking Models. Debit and Credit Cards. Digital Payment System – Internet Banking (NEFT, RTGS and IMPS), Mobile Banking, Mobile Wallet, AEPS, UPI **Orientation to Financial Statements:** financial terms and concepts, model for reading financial statements, basic ratios for evaluating companies while investing – Time Value of Money – Concept of Compounding and Discounting	4 hours
Two	**Investment Management** **Investment Goals:** Basic investment objectives – Investment goals – time frame – assessing risk profile – concept of diversification – risk measurement tools **Investment and Saving Alternatives for a Common Investor:** Insurance – Health, Life and Other General Insurance (Vehicle Insurance, Property Insurance, etc), Retirement and Pension Plans – National Pension System, Atal Pension Yojana, PM-SYM Yojana, PMLVMY PMKMDY etc., Stocks, Bonds, Mutual Funds. Investor Protection and Grievance Redressal **Stock Markets:** Primary Market and Secondary Market, Stock Exchanges, Stock Exchange Operations – Trading and Settlement, Demat Account, Depository and Depository Participants. **Stock Selection:** Fundamental Analysis – Economy Analysis, Industry Analysis and Company Analysis. Technical Analysis – Graphical Patterns, Candle-stick Patterns, Indicators and	8 hours

	Oscillators **Stock Return and Risk:** Analysing risk and returns trade off-relationship-investment risk	
Three	**Mutual Funds and Financial Planning Essentials** **Mutual Funds:** Features of Mutual Funds, Mutual Fund History in India, Major Fund Houses in India and Mutual Fund Schemes. Types of Mutual Fund Plans. Net Asset Value. **Criteria for selection of Mutual Funds:** Returns, Performance Measures – Sharpe, Treynor, Alpha, Beta and r^2 **Financial Planning:** Sample formats – Integrating all the concepts learnt with a personal financial plan **Giving and supporting:** Family support – charitable giving – crowd sourcing for needs	3 hours

Practical Content

| Module No.	Practical Coverage under the Module	Duration

One	**Foundations for Finance**
	
	- Spreadsheet Modelling:
	  - IF Function
	  - SUM Function
	  - AVERAGE Function
	  - INDEX, MATCH and VLOOKUP Function
	  - RANK Function
	  - SUMPRODUCT Function
	  - MAX & MIN Function
	  - ERRORS in Modeling (#VALUE!, #NAME?, #DIV/0!, #REF!, #NUM!, #NA)
	  - PRESENT VALUE Functions
	  - FUTURE VALUE Functions
	  - ANNUITY Functions
	  - PERPETUITY Functions
	- Statistical Functions in Excel
	- Financial Statements in Excel
		7 hours

Two	**Investment Management** - Administering Risk Tolerance Tool	17 hours

	• Group Presentations on Investment Alternatives (Advantages, Suitability and Limitations) • Demonstration of Stock Trading • Economy Analysis (www.tradingeconomics.com) • Industry Analysis (www.ibef.org) • Company Analysis (www.valueresearchonline.com) • Spreadsheet Modelling for Stock Valuation (Dividend Discount Model, Free Cash Flow and Relative Valuation) • Demonstration of Technical Analysis and Exercises (NSE – TAME) • Spreadsheet Modelling for calculating Stock Return, Risk and Beta	
Three	**Mutual Funds and Financial Planning Essentials** • Identification of Fund Houses in India, Schemes and Plans of each Mutual Fund House (www.amfiindia.in , www.valueresearchonline.com) • Exercises on Calculation of Net Asset Value • Demonstration of Mutual Fund Fact Sheet • Exercises on reading performance measures and selection of Mutual Funds • Preparation of Financial Plan	**6 hours**

References

1. RBI Financial Education Handbook
2. NSE Knowledge Hub, AI-powered Learning Experience Platform for BFSI
3. NSE Academy Certification in Financial Markets (NCFM) Modules:
   a. Macroeconomics for Financial Markets
   b. Financial Markets (Beginners Module)
   c. Mutual Funds (Beginners Module)
   d. Technical Analysis

Text Books:

S. No	Author/s	Title of the Book	Publisher
1	Prasanna Chandra	Financial Management	McGraw Hill Education
2	Aswath Damodaran	Corporate Finance	John Wiley & Sons Inc
3	Pitabas Mohanty	Spreadsheet Skills for Finance Professionals	Taxmann Publications
4	Fischer & Jordan	Security Analysis & Portfolio Management	Prentice Hall
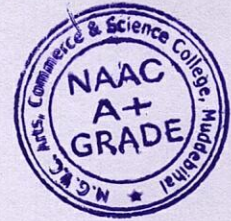
Websites:

1. www.sebi.gov.in
2. www.nseindia.com
3. www.amfiindia.com

Question Paper Pattern

1. Internal Assessment – 20 marks (based on practical lab-based assignments)

2. End Semester Exam – 30 marks

Section A: 4 out of 5 questions (2 marks each) 4 X 2 = **8 Marks**
Section B: 2 out of 3 questions (6 marks each) 2 X 6 = **12 Marks**
Section C: Compulsory:
Analysis of One Case (or) Two Case-lets 1 X 10 = **10 Marks**

Pedagogy

1. **Highlights of the contents of interactive E-workbook**
   - Micro and Macro-Indicators affecting Personal Financial Planning
   - Financial plan templates with examples/ scenarios
   - Financial Goal setting / Financial Goals Worksheet
   - Stock Selection
   - Criteria for selection of Mutual Funds
   - Investment options for young adults who enter professions
   - Financial security worksheet
   - Glossary of must know key terms

2. **Online Diagnostic Assessments / Instruments**

Type	Method	Outcome
Quiz	Flash cards and games	Instructive and persuasive for behavioural change
Projections	Personal Budget based assessment	Assimilation, application and retention through case scenarios
Preassessments	Financial life skills Investor Risk Profile Risk Measurement Skills	Benchmark knowledge according to the requirements of the age and situation
Psychometric assessments	Financial stress scale	Create follow up assignments that sustain changed behaviours

3. **10 Recorded self-help videos 12 minutes each from experts**

Implementation Plan

1. On the approval of the Course Outline and Assessment Mechanism by the Council, NSE Academy - in association with universities, will delegate Nodal Officers for the implementation of the Program.
2. With the help of the Nodal Officers, NSE Academy will invite nominations from colleges and institutions for the Train the Trainer Programs (both physical and virtual).
3. The faculty members will undergo a rigorous training in TTT and also an assessment leading to a joint Certification from NSE Academy and the corresponding university.
4. NSE Academy will support the faculty members through specially created courses on NSE Knowledge Hub.
5. NSE Academy will also support the faculty members with comprehensive training material and facilitator aids for training the students.
6. Additionally, the Commerce and Management faculty members will be supported with continuous learning programs on NSE Knowledge Hub, on relevant topics.
7. NSE Academy will design, develop and provide customized student-friendly interactive workbooks (digital) that will support classroom learning as formative assessment.
8. NSE Academy will issue model question papers for the assessments to the Nodal Officers / CoEs of the Universities. The Universities may in turn conduct assessments for the students, evaluate and submit results to the Council and NSE Academy.
9. Based on the assessment results submitted by the Universities / Colleges / Institutions, NSE Academy will issue a Course Completion Certificate jointly with the corresponding university.
10. NSE Academy will support faculty members on research topics through research workshops on quantitative and qualitative research.
11. NSE Academy will confer the 'Best Research Proposal Award' for the faculty members
12. NSE Academy will invite (from students) sand select five best project proposals for award.
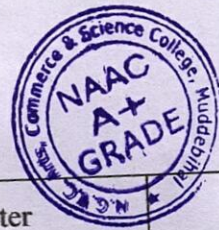
Program Name			Semester		V
Course Title	**Cyber Security (Theory)**		No. of Credits		03
Course Code:	SEC-5		Duration of SEA/Exam		03 hrs
Contact hours	45Hrs				
Formative Assessment Marks		50	Summative Assessment Marks		50

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

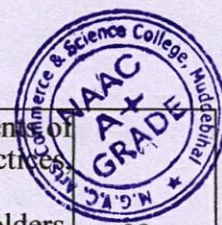|	
CO1	After completion of this course, students would be able to understand the concept of Cyber security and issues and challenges associated with it.
CO2	Students, at the end of this course, should be able to understand the cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.
CO3	On completion of this course, students should be able to appreciate various privacy and security concerns on online Social media and understand the reporting procedure of inappropriate content, underlying legal aspects and best practices for the use of Social media platforms.
CO4	After the completion of this module, students would be able to understand the basic concepts related to E-Commerce and digital payments. They will become familiar with various digital payment modes and related cyber security aspects, RBI guidelines and preventive measures against digital payment frauds.
CO5	Students, after completion of this module will be able to understand the basic security aspects related to Computer and Mobiles. They will be able to use basic tools and technologies to protect their devices.

Contents	45Hrs
Module-I. Introduction to Cyber security: Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Advent of internet, Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.	09
Module-II. Cyber-crime and Cyber law: Classification of cybercrimes, Common cyber-crimes- cyber-crime targeting computers and mobiles, cyber crime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi, Reporting of cyber crimes, Remedial and mitigation measures, Legal perspective of cyber crime, IT Act 2000 and its amendments, Cyber-crime and offences, Organisations dealing with Cyber-crime and Cyber security in India, Case studies.	09
Module III. Social Media Overview and Security: Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media, Case studies.	08

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Module IV. Definition of E- Commerce, Main components of E-Commerce, Elements of E-Commerce security, E-Commerce threats, E-Commerce security best practices, Advantage of e-commerce, Survey of popular e-commerce sites. Introduction to digital payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary Service Data (USSD), Aadhar enabled payments, Digital payments related common frauds and preventive measures. RBI guidelines on digital payments and customer protection in unauthorized banking transactions. Relevant provisions of Payment Settlement Act,2007.	08
Module V. End Point device and Mobile phone security, Password policy, Security patch management, Data backup, Downloading and management of third-party software, Device security policy, Cyber Security best practices, Significance of host firewall and Ant-virus, Management of host firewall and Anti-virus, Wi-Fi security, Configuration of basic security policy and permissions.	11

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes

Course Out comes(COs) /Program Outcomes (POs)	Program Outcomes (POs)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Quickly understand the given problem and come up with the correct answer															
Identify, construct and compute numerical situations by work with numbers															
Conceive and develop a methodology for analyzing data and solving a problem.															
Define, modify and apply critical thinking to real time situations.															

Pedagogy: Problem Solving

Formative Assessment for Theory	
Assessment Occasion/type	**Marks**
Internal Test1	30%
Assignment/Surprise Test	20%
Total	**50 Marks**
Formative Assessment as per guidelines.	

Text/References	
1	Cyber Crime Impact in the New Millennium, by R. C Mishra, Auther Press. Edition 2010
2	Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)
3	Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. (Pearson , 13th November, 2001)
4	Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers.
5	Fundamentals of Network Security by E. Maiwald, McGraw Hill.
6	Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.

Name of the Program: Bachelor of Arts/ Science/ Commerce/ Business Administration/ Social Works; Bachelor of Arts/ Science/ Commerce/ Business Administration/ Social Works (Hons. With or without Research), and Bachelor of Performing Arts, Bachelor of Visual Arts, and Bachelor of Hotel/Hospitality Management		
Course Code: 5.6		
Name of the Course: Employability Skills		
Course Credits	**No. of Hours per Week**	**Total No. of Teaching Hours**
3 Credits	3 Hrs	45 Hrs
Formative Assessment Marks	50	**Summative Assessment Marks MCQ** 50
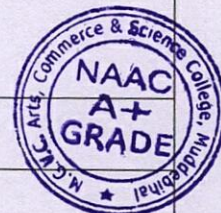
Pedagogy: Classroom lectures, Activities based learning, Practice Questions, Tutorial Classes, Group discussions, Mock Tests, etc,

Course Outcomes: On successful completion of the course, the students will be able to
  a) Develop systematic problem-solving abilities.
  b) Enhance verbal and non-verbal reasoning skills.
  c) Improve numerical and analytical abilities.
  d) Enhance English language and communication skills.

Syllabus:	Hours
Module No. 1: General Orientation on all Competitive Exams	5
Overview of Competitive Exams for Government Recruitment in India - Introduction, Eligibility Criteria, Exam Pattern, Syllabus, and Resources.	
Module No. 2: Quantitative Aptitude	20
Number system, HCF &LCM, Ratio and Proportion, Averages, Ages, Percentages, Partnerships, Time, Speed and Distance, Profit and Loss, Data Interpretation, Problems based on Simple interest, Compound interest, Clocks, and Calendars.	
Module No. 3: Verbal and Nonverbal Reasoning	10
Verbal Reasoning: Data analysis, Data sufficiency, Decision making, coding & decoding, Blood relations, Puzzle tests, Direction sense test, Problems based on Venn Diagram/Syllogisms, Alphabet test, Arithmetical reasoning, Input/Output, Series and Seating arrangements. Non-Verbal Reasoning: Analogy, Water images, mirror images, embedded figures, Completion of Pattern, Paper folding, Cubes & dice, Figure Formation & Analysis.	
Module No. 4: English Language and Comprehension Solving	10
Vocabulary, English Grammar, Verbal Ability, Sentence Structure, Spot the Error, Fill in the Blanks, Idioms & Phrases, Cloze Passages, and Comprehension Passages.	
Skill Development Activities:	
Various activity-based learning methods such as problem-solving exercises, case studies, role-playing, debates, group discussions, mock tests, and assessments can be conducted, in addition to any other relevant activities for the course to ensure effective learning.	

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Materials:
1. https://free.aicte-india.org/Quantitative-Aptitude-Basics.php
2. https://onlinecourses.nptel.ac.in/noc20_hs19/preview
3. https://www.udemy.com/course/reasoning-verbal-non-verbal/

Note: Latest editions of books such as Quantitative Aptitude for Competitive Examinations, Modern Approach to Verbal and Non-Verbal Reasoning, Quick Learning Objective General English by R.S.Agarwal or Arihant Publications, and other renowned titles can be referred to enhance exam preparation.