



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

BA/B.Sc/B.Com/BBA

Semester I

Multidisciplinary Elective

Information Technology

Course Outcomes

CO. No.	Course Outcomes	Cognitive Level
CO 1	Describe the fundamental components and evolution of a computer system.	Understanding
CO 2	Apply essential word processing skills to create, format, and manage professional documents.	Apply
CO 3	Analyze data using spreadsheet functions and charts to make informed interpretations.	Analyse
CO 4	Create dynamic and visually engaging presentations by integrating various media and effects.	Creating
CO 5	Evaluate the relevance and basic principles of emerging technologies such as Artificial Intelligence and Cloud Computing.	Evaluating

Credit and Marking Scheme

Theory	Credits	Marks		Total Marks
		Internal	External	
	02	-	100	100
Practical	01	-	100	100

Evaluation Scheme

	Marks	
		External
Theory	1 External Exams(At the End of Semester) Objective type questions Short Answer type questions Long type questions	
Practical	Viva-Voce(10) Practical Record Book(40) Practical/Exercised Assigned(30) Execution(20)	





ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

BA/B.Sc/B.Com/BBA Semester I Multidisciplinary Elective Information Technology Content of the Course

Total No. of Lectures: 30 Hrs.(theory) + 15 hrs(Practical)

Maximum Marks: 70

Minimum Marks: 35

Module	Topics Covered	No. of Lectures
I	Fundamentals of Computer: Definition of a computer and its characteristics, Evolution and generations of computers, Types of computers (e.g., desktops, laptops, servers), Basic computer organization (hardware and software), Input devices (keyboard, mouse, scanner). Output devices (monitor, printer), CPU (Arithmetic Logic Unit, Control Unit, Memory Unit). Memory (RAM, ROM, cache), Storage devices (hard drive, SSD, USB drive).	06
II	Introduction to MS Word: Create a new document, Open, save and print a document, Edit and format text, Change the page layout, background and borders, Insert headers and footers, Insert and edit tables, Insert clip art and pictures to documents, Perform a mail merge.	06
III	Introduction to MS Excel: Spreadsheet Basics: Creating, editing, saving and printing spreadsheet, Working with functions & formulas, Formatting, sheet management Graphically representing data: Charts & Graphs, Filtering Data (auto and advance filter, Protecting Spreadsheets, Data Validation.	06
IV	Introduction to Power Point: Creating a presentation, Formatting a presentation, Adding effects to the presentation, Reusability and Templates of the presentation, Different views of Slides, Files in power point presentation, Printing Handouts, Tables – Columns and Lists, Adding Graphics – Sounds and Movies of a Slide, Effects, Animation, Slide show – Transition and Timings.	06
V	What is Artificial Intelligence History & Evolution, Types of AI, AI in education, healthcare and agriculture. What is Cyber Security, Applications, Security Attacks [active and passive], Cyber Security vs Information Security.	06

References

Suggested Readings:

- “Office Automation” by Girija D. K., Rashami M. and Shilpa H.K. Himalaya Publication House.
- “Computer Fundamentals and Office Automation”, by Dr. R. Deepalakshmi.

Web Links

<https://www.tutorialspoint.com/word/index.htm>

<https://edu.gcfglobal.org/en/subjects/office/>



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Practical List

1. Design a flyer for a conference on “Application of AI” using MS Word.
2. Design a poster for advertisement using MS Word
3. Design a business card using MS Word.
4. Create a presentation on any topic using MS Power Point.
5. Perform mail merge using MS Word.
6. Design mark sheet with supported calculations using excel.
7. Implement Auto Filter on employee data.
8. Implement advance Filter on employee data
9. Display column chart for each students for 3 subjects.
- 10.Design any bill using excel.



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

BA/B.Sc/B.Com/BBA

Semester I

Multidisciplinary Elective

Artificial Intelligence (AI) for Everyone

Course Outcomes

CO. No.	Course Outcomes	Cognitive Level
CO 1	Understand (Level-1) the essentials of AI	U, Apply
CO 2	Differentiate (Level-2) between the traditional and generative AI;	Apply
CO 3	Use (Level-4 to 6) various AI tools in daily-life	U, Apply
CO 4	Use various AI applications (Level-6) and tools	U, Analyse , Apply
CO 5	Can use AI (Level-6) in the field of Agriculture, Healthcare and Education.	Apply

Credit and Marking Scheme

Theory	Credits	Marks		Total Marks
		Internal	External	
	02	-	100	100
Practical	01	-	100	100

Evaluation Scheme

Theory	Marks
	External
	1 External Exams(At the End of Semester) Objective type questions Short Answer type questions Long type questions
Practical	Viva-Voce(10) Practical Record Book(40) Practical/Exercised Assigned(30) Execution(20)





ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

(Four handwritten signatures in blue ink)

BA/B.Sc/B.Com/BBA
Semester I
Multidisciplinary Elective
Artificial Intelligence (AI) for Everyone
Content of the Course

Total No. of Lectures: 30 Hrs.(theory)

Maximum Marks: 100

Module	Topics Covered	No. of Lectures
I	Introduction to Computers, block diagram of computer system, component of computers, input output devices, hardware and software, types of data in computer system, Introduction to Artificial Intelligence : What is AI? History and Evolution, Overview of Generative AI, Traditional AI vs. Generative AI Artificial Intelligence vs. Augmented Intelligence, IKS: Intelligence in Indian philosophy - Nyaya Darshan	06
II	Everyday application of AI: AI chat-bots and AI assistants, AI in education, healthcare, agriculture.AI tools, Generative AI tools, using copilot, Gemini, bard, chat-gpt. Creating prompts in AI models, Meaning of prompt: instruction and response.	06
III	AI in Spread-sheet and its functions, Text-editor and Presentation applications, AI in image generation, Canva AI: Creating a Canva account, Navigating the dashboard and Understanding templates and design types, Text tools: fonts, effects, spacing, Elements: shapes, lines, icons, stickers, Uploads and Working: adding your own images and files.	06
IV	Content generation tools: Text generation tools, AI writing tools: Chat-GPT, DALL-E, code generation Open-source tools: Numpy, Pandas (basics), Ethical Use of AI: Privacy, bias, misinformation, and plagiarism risks Overview of Plagiarism checking tools (e.g., Grammarly, Turnitin) Guidelines for ethical use in academics and research.	06
V	Futuristic AI trends: Emerging AI trends (LLMs, robotics, NLP), Human-AI collaboration and skill requirements, Careers in AI and digital economy, IKS: Long-term thinking from Indian philosophy in AI ethics	06

References



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Suggested Readings:

- “AI for Everyone: A Common Man's Guide to Artificial Intelligence” by Shridhar Shastri, Kindle Edition.
- “Generative AI for Everyone: Deep learning, NLP, and LLMs for creative and practical applications “, by Kartekiyae Sabesan, Kindle Edition.

Web Links

<https://pdfcentro.com/library/artificial-intelligence-a-guide-for-thinking-humansutm-sourcechatgpt-com-4971452>



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Practical List

1. Create a business flyer of local business using template in canva or for “Application of AI” using Canva.
2. Upload an image from your computer folder and customise it using elements, text, animation in canva
3. Create a poster for advertisement in canva.
4. Design a business card using Canva AI.
5. Create a dynamic business presentation on any topic using canva
6. Create a prompt for designing a business card for any digital marketing company having logo ,name ,email and phone number.
7. Compare two text and paraphrase it using quillbot .
8. Generate the image using prompt in chatgpt or gemini.



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-IST Supported & STAR College Scheme by DBT

PART A: Introduction

PROGRAM: Under Graduate		CLASS: B.Sc.	SEMESTER: I	SESSION: 2025-26
Subject: Computer Science				
1.	Course Code			
2.	Course Title	Generic (TH): Cyber security and Digital Hygiene		
3.	Course Type	Generic(Multidisciplinary)		
4.	Pre-Requisite (if any)	This course does not assume prior knowledge and is suitable for students from all disciplines.		
5.	Course Learning Outcomes(CO)	On completion of this course, learners will be able to: CO1. Understand (level-1) the essentials of cyber security and digital hygiene. CO2. Understand (level-2) the concepts of cyber threats and data breaches and safe online practices; CO3. Can recognize threats (level-6) and respond appropriately; CO4. Experimental learning (level-4) through case studies; CO5. Apply the knowledge (level-6) for better and secure transaction over internet and can contribute in others in understanding the digital security awareness. NOTE: level of Bloom's taxonomy is mentioned in the brackets.		
6.	Credit Value	Theory 3 Credits		
7.	Total Marks	Max. Marks : 100 (30+70) Min. Passing Marks: 35		

PART B: Content of the Course

No. of Lectures (in hours per week): 3 Hrs. per week

Total No. of Lectures: 45 Hrs.

Module	Topics	No. of
I	Introduction to Cybersecurity: Definition, Scope and Importance of Cyber-Security, History and evolution of cyber threats, Common cyber threats: phishing, malware, Ransomware, Social Engineering Cybersecurity in daily life (online shopping, banking, social media) Experiential Learning Activity: Group Discussion: 'Have you ever encountered a cyber-threat?'; Identify phishing emails from a set of examples	09
II	Digital Hygiene Practices: Good Practices for device and data protection, strong password management and multifactor authentication, safe browsing habits and software updates, avoiding harmful downloads and unauthorized links. Experiential Learning Activity: Hands on activity: create a digital hygiene checklist: Use of password managers (demo).	09



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

III	Legal and ethical aspects of cybersecurity: overview of indian IT act and relevant laws, cybercrime reporting in India, Digital rights and responsibilities, Ethical use of digital content and resources. Experiential Learning Activity: Case study analysis: Indian cyber law cases; Role play: cyber complain reporting	09
IV	Cybersecurity Tools and Software Awareness: Introduction to antivirus, firewalls, anti-malware tools, Browser extensions for safety(ad blockers, HTTPS everywhere), safe use of public Wi-Fi and VPNs. Simple threat detection mechanism. Experiential Learning Activity: Demo: Use of basic antivirus software; Simulated Lab: identifying malicious sites	09
V	Indian Knowledge System (IKS) and Digital ethics: Ethical responsibility in digital behavior based on Indian philosophical traditions, Niti and dharma in online conduct, Ancient Indian Communication ethics and their relevance today, data integrity and responsibility from indian knowledge lens Experiential Learning Activity: Discussion: Digital ethics in Indian tradition vs modern security: Student Poster presentation on "Dharma of a digital	09
Keywords/Tags: Cyber-threat, Phishing, Malware, HTTPS, VPNs, IKS		



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

E-Commerce and Digital Marketing

Unit- I

Fundamentals of Computers: Computer- Block diagram, Input Devices and Output Devices, Primary Memory: RAM and ROM, Secondary Memory. **Introduction to E-Commerce:** Definition, Scope, and History of E-Commerce, Benefits and Limitations of E-Commerce, Traditional Commerce vs E Commerce, E-Commerce Trends and Opportunities.

Unit- II

E-Commerce Business Models and Applications: Business-to-Consumer (B2C), Business-to-Business (B2B). Consumer-to-Consumer (C2C), Consumer-to-Business (C2B), E-Government and Mobile Commerce. **Basics of Networks:** Networks and Types, Protocols, WWW, URL's, Domain Names.

Unit-III

Technological Infrastructure of E-Commerce: Internet, Intranet, and Extranet, Web Servers, Browsers, and Hosting, E-Commerce Software Platforms, Security Protocols and Encryption.

Commerce Security and Payment Systems E-Payment Systems: Credit Cards, Digital Wallets, UPI, Online Banking and Payment Gateways, E-Commerce Security Threats, Legal, Ethical, and Taxation Issues in E-Commerce.

Unit-IV

Introduction to Digital Marketing: Definition and Scope of Digital Marketing, Traditional vs Digital Marketing, Digital Marketing Mix and Buyer Journey, Inbound vs Outbound Marketing.

Introduction to Canva, WordPress, Basics of Word Processor.

Unit- V

Digital Marketing Channels and Tools

Search Engine Optimization (SEO) and Search Engine Marketing (SEM), Social Media Marketing (Facebook, Instagram, LinkedIn, YouTube), Email Marketing and Content Marketing, Affiliate Marketing and Influencer Strategies.

Digital Strategy, Analytics, and Trends Creating Digital Marketing Plans and Campaigns.

Practical List

1. Design Business Flyer in MS-Word.
2. Create Business Blog using WordPress
3. Design a Brochure using Canva.
4. Design web layout for your business in Canva.
5. Create your YouTube channel for your business promotion.