ST. ALOYSIUS' COLLEGE
JABALPUR (MADHYA PRADESH)

Autonomous, Reaccredited 'A++' Grade by NAAC (CGPA 3.58/4.00)
College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT

Affiliated to Rani Durgavati Vishwavidyalaya, Jabalpur (M.P.)

SYLLABUS

Department of Computer Science

Multi-Disciplinary Course (MDE)

Academic Curriculum & Syllabus

Programme Level	UG
Academic Session	2026-2027
Department	all

PROGRAM OUTCOMES

PO1. Analyse and solve computational problems logically.
PO2. Design and develop effective software solutions.
PO3. Follow ethical and professional computing practices.
PO4. Understand social and environmental impacts of computing.

Syllabus Book

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Dept. of Computer Science
St. Aloysius College (Auto)
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SYLLABUS

Department	Department of Computer Science	**Program**	Multi-Disciplinary Course (MDE)
Level	UG	**Semester**	III
Course Code		**Course Type**	Multi-Disciplinary Course (MDE)
Paper	NA	**Course Title**	IT-Prompt Engineering
Credit	3	**Session**	2026-2027

Course Outcomes

CO1. Understand the architecture and behaviour of Large Language Models (LLMs).

CO2. Master core prompting techniques like zero-shot, fewshot, chain-of-thought, and role prompting

CO3. Design, test, and iterate prompts systematically using structured evaluation frameworks.

CO4. Build practical applications such as chatbots, data extractors, and AI-assisted coding

UNIT 1	Content	Duration
1	Foundations of AI & Prompting: Introduction to LLMs: Brief overview of how language models (like ChatGPT or Gemini) function and process inputs, The "Prompt Card" Formula: Learning to structure prompts effectively using the formula, Good vs. Bad Prompts: Identifying and correcting ambiguous or confusing inputs	6
2	Text Mastery & productivity: Content Generation: Crafting prompts for writing, paraphrasing, summarizing, and translating text, Data Extraction: Techniques for converting unstructured data (like raw documents) into structured, readable formats (e.g., tables), Everyday Applications: Leveraging AI for business correspondence, organizing, and daily problem-solving.	6
3	Media Creation: Visuals & Branding: Designing prompts to generate logos, banners, and social media graphics, Voice & Video: Utilizing AI to create voiceovers, scripts, and short explainer reels.	6
4	Coding & Workflow Automation: Coding Copilots: Directing AI tools (like GitHub Copilot) to generate, translate, and debug code, No/Low-Code Chatbots: Building applications, interactive websites, and bilingual FAQs without needing heavy programming knowledge. Agentic AI, RAG and Tool Use	6
5	Ethics & Capstone: Quality & Safety: Understanding the limitations, biases, and ethical considerations of using AI	6

Assessment Scheme

Component	Credit	Internal	External	Total
Theory	2	-	100	100
Practical	1	-	100	100
Total	**3**			**200**

Practical List

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P1. Introduction to Generative AI and Prompting: Understanding how large language models respond to different types of prompts. Activities: Compare vague specific and role-based prompts. Observe differences in accuracy, verbosity and hallucinations. Sample Tasks: "Explain cloud computing.", "Explain cloud computing to a 10-year-old." Or "Act as an IT professor and explain cloud computing. with examples." Deliverables: Prompt table: Output comparison and Reflection report.

P2. Prompt Components and Design Patterns: Learning the basic structures of prompts. Activities: like students create prompts for: summarization, translation, code generation, question answering. Deliverables like Prompt library with explanations, Screenshots/results

P3. Zero-shot, One-shot, and Few-shot Prompting: Understanding example-based prompting. Activities: Use the same task with zero-shot, one shot and few shot prompting. Example: Sentiment analysis of reviews. Analysis: Compare output quality, consistency and correctness. Deliverables: Experimental report & Comparative observations.

P4. Prompt Engineering for Programming Assistance: Using AI tools for coding tasks. Activities: Generate Python programs, debugging suggestions, comments/documentation and test cases. Example Tasks like Prime number checker, Sorting algorithm, File handling program.Deliverables: Prompt set, Generated code, Error analysis.

P5. Structured Output Prompting. Objective: Generate machine-readable outputs. Activities: Create prompts that produce: JSON, tables, CSV, markdown reports. Example: "Extract student details and return valid JSON." Deliverables: Prompt-output pairs, Validation report

P6. AI Hallucination and Fact Verification. Objective: Study limitations of generative AI. Activities: Ask factual and ambiguous questions, detect hallucinations, verify answers using trusted sources. Suggested Topics: historical facts, technical specifications, recent events. Deliverables: Hallucination logbook, Verification report.

P7. Prompt Optimization and Iterative Refinement. Improve outputs through iterative prompting. Activities: Students refine prompts in multiple iterations. Metrics: relevance, accuracy, completeness, token efficiency. Deliverables: Version history of prompts, Before/after comparison.

P8. Prompt Chaining and Workflow Design: Build multi-step AI workflows. Activities: Create a workflow: Summarize article, Extract keywords, Generate quiz questions, Produce final report. Deliverables: Workflow diagram, Prompt chain documentation

P9. Al-Assisted Content Generation: Generate domain-specific content responsibly. Activities: Create technical blogs, email drafts, product descriptions and FAQs. Constraints: tone control, word limits, audience targeting. Deliverables: Content portfolio and Prompt rationale

P10. Engineering for Data Analysis. Objective: Use prompts for interpreting datasets. Activities: Students provide CSV samples, statistical summaries, chart interpretations. Tasks: Generate insights, Explain trends, Create executive summaries.Deliverables: Dataset analysis report and Al-generated insights evaluation

P11. Ethical AI and Secure Prompting. Objective: Understand ethical risks and misuse prevention.Topics: prompt injection, bias, privacy leakage, misinformation and responsible AT use. Activities: Analyze unsafe prompts and redesign them safely. Deliverables: Ethics case study report, Safe prompt redesign.

P12. Mini Project: AI Prompt Application: Develop a small Al-powered application/workflow. Suggested Projects: AI study assistant, Resume analyzer, FAQ chatbot, Automated email generator, Code explainer, and AI tutor. Requirements: prompt documentation, testing, evaluation metrics and presentation/demo. Deliverables: Mini project report, Demonstration and Source code/prompts

Reference Books

- Prompt Engineering, Nirali Prakashan
- Prompt Engineering, BPB Online
- Mastering Prompt Engineering K P Alexander
- Prompt Engineering for LLMs, BPB Online

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SYLLABUS

Department of Computer Science

Multi-Disciplinary Course (MDE)

Academic Curriculum & Syllabus

Programme Level	UG
Academic Session	2026-2027
Department	all

PROGRAM OUTCOMES
PO1. Analyse and solve computational problems logically.
PO2. Design and develop effective software solutions.
PO3. Follow ethical and professional computing practices.
PO4. Understand social and environmental impacts of computing.

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SYLLABUS

Department	Department of Computer Science	**Program**	Multi-Disciplinary Course (MDE)
Level	UG	**Semester**	III
Course Code		**Course Type**	Multi-Disciplinary Course (MDE)
Paper	NA	**Course Title**	AI-Introduction to Prompt Engineering
Credit	3	**Session**	2026-2027

Course Outcomes

CO1. Understand the architecture and behavior of Large Language Models (LLMs).

CO2. Explain core prompting techniques like zeroshot, few-shot, chain-of-thought, and role prompting.

CO3. Design, test, and iterate prompts systematically using structured evaluation frameworks.

CO4. Build practical applications such as chatbots, data extractors, and AI-assisted coding tools.

UNIT 1	Content	Duration
1	Foundations of AI & Prompting Introduction to LLMs: Brief overview of how language models (like ChatGPT or Gemini) function and process inputs, The "Prompt Card" Formula: Learning to structure prompts effectively using the formula, Good vs Bad Prompts: Identifying and correcting ambiguous or confusing inputs.	6
2	Text Mastery & Productivity Content Generation: Crafting prompts for writing, paraphrasing, summarizing, and translating text, Data Extraction: Techniques for converting unstructured data (like raw documents) into structured, readable formats (e.g., tables), Everyday Applications: Leveraging AI for business correspondence, organizing, and daily problem-solving.	6
3	Media Creation Visuals & Branding: Designing prompts to generate logos, banners, and social media graphics, Voice & Video: Utilizing AI to create voiceovers, scripts, and short explainer reels.	6
4	Coding & Workflow Automation Coding Copilots: Directing AI tools (like GitHub Copilot) to generate, translate, and debug code, No/Low-Code Chatbots: Building applications, interactive websites, and bilingual FAQs without needing heavy programming knowledge. Agentic AI, RAG and Tool Use.	6
5	Ethics & Capstone Quality & Safety: Understanding the limitations, biases, and ethical considerations of using AI.	6

Assessment Scheme

Component	Credit	Internal	External	Total
Theory	2	-	100	100
Practical	1	-	100	100
Total	**3**			**200**

Practical List

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P1. Introduction to Generative AI and Prompting Understand how large language models respond to different prompts. Activities Compare vague specific and role-based prompts. Observe differences inaccuracy, verbosity and hallucinations. Sample Tasks: "Explain cloud computing." Explain cloud computing to a 10 year- old. " Or "Act as an IT professor and explain cloud computing. with examples. ' Deliverables: Prompt table: Output comparison and Reflection report.

P2. Prompt Components and Design Patterns Objective: Learn core prompt structures. Concepts: Role prompting, Context injection, Constraints, Output formatting. Activities like students prompts for: summarization, translation, code generation. question answering. Deliverables like Prompt library With explanations, Screenshot results.

P3. Zero-shot, and Few-shot Prompting Objective: Understand example-based prompting. Activities: Use the same task With zero-shot. one shot and few shot prompting. Example: Sentiment analysis Of Analysis: Compare output quality consistency and correctness. Deliverables: Experimental reports & Comparative Observations.

P4. Prompt Engineering for Programming Assistance Objective: Use A1 tools for coding tasks. Activities: Generate Python programs, debugging suggestions, comments/ documentation and lest cases. Example Tasks like Prime number check, Sorting algorithm, File handling program. Deliverables: Prompt set , Generated code, Error analysis.

P5. Structured Output Prompting Objective: Generate machine-readable outputs. Activities: Create prompts that produce: JSON tables, CSV ,markdown reports, Example: "Extract student details and return valid JSON " Deliverables: Prompt- output pairs, Validation report.

P6. AI Hallucination and Fact Verification Objective: Study limitations of generative AI. Activities: Ask factual and ambiguous questions, Detect hallucinations, Verify answers using trusted sources. Suggested Topics: historical facts, technical specifications, recent events. Deliverables: Hallucination logbook, Verification report.

P7. Prompt Optimization and Iterative Refinement Objective: Improve Outputs through iterative prompting. Activities: Students refine prompts in multiple iterations. Metrics: relevance. accuracy, completeness, token efficiency. Deliverables: Version history of prompts, Before/after comparison.

P8. Prompt Chaining and Workflow Design Objective: Build multi-step A1 workflows. Activities: Create a workflow: Summarize article, Extract keywords, Generate quiz questions, Procedure final report. Deliverables: Workflow diagram, Prompt chain documentation.

P9. AI-Assisted Content Generation. Objective: Generate domain-specific content responsibly. Activities: Create technical blogs, email drafts, product descriptions and FAQs. Constraints: Tone control, word limits, audience targeting. Deliverables: Content portfolio and Prompt rationale.

P10. Prompt Engineering for Data Analysis Objective: Use prompts for interpreting datasets. Activities: Students provide CSV samples, statistical summaries, chart interpretations. Tasks: Generate insights, Explain trends, Create executive summaries. Deliverables: Dataset analysis report and AI-generated insights evaluation.

P11. Ethical AI and Secure Prompting Objective: Understand ethical risks and misuse prevention. Topics: prompt injection, bias, privacy leakage, misinformation and responsible AI use. Activities: Analyze unsafe prompts and redesign them safely. Deliverables: Ethics case study report. Safe prompt redesign.

P12. Mini Project: AI Prompt Application Objective: Develop a small A1-powered application/workflow. Suggested Projects: AI study assistant Resume analyzer, FAQ chatbot, Automated email generator Code explainer and AI tutor. Requirements: prompt documentation, testing evaluation metrics and Presentation ,demo. Deliverables: Mini project report, Demonstration and Source code/prompts.

Reference Books

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- Prompt Engineering, BPB Online.
- Mastering Prompt Engineering KPAlexander.
- Prompt Engineering for LLMs, BPB Online.

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SYLLABUS

Department of Computer Science

Multi-Disciplinary Course (MDE)

Academic Curriculum & Syllabus

Programme Level	UG
Academic Session	2026-2027
Department	all

PROGRAM OUTCOMES

PO1. Analyse and solve computational problems logically.

PO2. Design and develop effective software solutions.

PO3. Follow ethical and professional computing practices.

PO4. Understand social and environmental impacts of computing.

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SYLLABUS

Department	Department of Computer Science	**Program**	Multi-Disciplinary Course (MDE)
Level	UG	**Semester**	III
Course Code		**Course Type**	Multi-Disciplinary Course (MDE)
Paper	NA	**Course Title**	Cyber Security - Office Automation AI Tools
Credit	3	**Session**	2026-2027

Course Outcomes

CO1. After completing this course student will be able to:

CO2. Explain the fundamentals Of office automation and assisted digital productivity tools in everyday applications.

CO3. Identify suitable AI tools for document preparation. presentations, spreadsheets, communication. and data organization.

CO4. Apply Office automation AI tools for creating professional documents, reports, presentations, and collaborative work.

CO5. Demonstrate safe and ethical use of AI tools in academic and workplace environments.

CO6. Analyze real-life digital problems and select appropriate A1-enabled office solutions.

CO7. Create basic digital content using AI-supported productivity platforms.

CO8. Develop employability-oriented digital skills for academic, administrative, entrepreneurial, and workplace applications Note: Level of Bloom's Taxonomy is mentioned in the brackets.

UNIT 1	Content	Duration
1	Foundations of Office Automation, AI Awareness and Indian Knowledge System (IKS) Introduction to Office Automation: Meaning, Need and Applications in Education, Administration and Business; Evolution of Office Technologies; Introduction to Artificial Intelligence and Generative AI; AI in Everyday Life; Digital India Mission and AI-enabled Governance. Indian Knowledge System (IKS): Ancient Indian contributions to mathematics, logic and computational thinking; Concept of algorithms in Pingala's Chandashastra; Aryabhata's mathematical innovations; India's contribution to digital technology and software services; Role of India in the global IT ecosystem. Basic Computer Productivity Concepts: Cloud storage, digital collaboration, online communication tools, digital workflow management. Ethics and Responsible Use of AI: Data privacy, plagiarism, misinformation, cyber safety, ethical AI usage.	6
2	AI-Assisted Word processing and Smart Documentation Introduction to Word Processing Tools; AI-enabled document creation; Smart typing and grammar correction; AI-based translation and summarization tools; Resume and report preparation; Templates and formatting tools; Creation of letters, notices, meeting minutes, brochures and academic assignments. Use of AI Tools for: Content drafting, Proofreading, Grammar checking, Citation assistance ,Language translation ,Speech-to-text and text-to-speech Collaborative Documentation: Cloud documents, document sharing, commenting, and version control.	6

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3	AI Data Automation: Generating complex formulas using natural language prompts; using AI extensions (e.g., numerous.ai, ChatGPT plugin for Sheets). Data Cleaning and Formatting: Using AI to split names, clean messy data entries, fill missing values, and categorize unstructured textual logs. Business Intelligence Applications: Auto-generating pivot tables, charts, data summaries, and narrative interpretations of financial tables or survey results.	6
4	AI-Enabled Presentation, Communication and Collaboration Tools Presentation Software Basics: AI-assisted slide creation; Design suggestions; Smart templates; Infographics and visual storytelling. Communication and Collaboration: A1-enabled email drafting; Scheduling tools; Virtual meeting platforms; Chatbots and smart assistants. Digital Collaboration: Cloud collaboration, online teamwork platforms, task management tools. Applications: Seminars, project presentations, business pitches, academic presentations, social awareness campaigns.	6
5	AI Productivity Tools, Emerging Trends and Real-Life Applications Introduction to AI Productivity Platforms: Automation in offices and institutions; AI-powered note-taking tools; Smart search engines; AI scheduling assistants; Digital workflow automation. Emerging Applications: AI in education, healthcare, banking, governance, agriculture, media and entrepreneurship. Introduction to Prompt Writing: Basics Of effective prompting for AI tools; Writing meaningful prompts for documents, reports, presentations and creative work. Mini Project Orientation: Problem identification, digital solution design, presentation of AI-assisted office tasks. Future Skills: Digital employability, freelancing opportunities, entrepreneurship using office automation tools.	6

Assessment Scheme

Component	Credit	Internal	External	Total
Theory	2	-	100	100
Practical	1	-	100	100
Total	**3**			**200**

Practical List

P1. Introduction to Generative AI and Prompting: Understanding how large language models respond to different types of prompts. Activities Compare vague specific and role-based prompts. Observe differences in accuracy, verbosity and hallucinations. Sample Tasks: "Explain cloud computing.", "Explain cloud computing to a 10-year- old." Or "Act as an IT professor and explain cloud computing. with examples." Deliverables: Prompt table: Output comparison and Reflection report.

P2. Prompt Components and Design Patterns: Learning the basic structures of prompts. Activities like students create prompts for: summarization, translation, code generation, question answering. Deliverables like Prompt library with explanations, Screenshots/results.

P3. One-shot, and Few-shot Prompting: Understanding prompting. Activities: Use the same task with zero-shot, one shot and few shot prompting. Example: Sentiment analysis of reviews. Analysis: Compare output quality, consistency and correctness. Deliverables: Experimental report & Comparative observations.

P4. Prompt Engineering for Programming Assistance: Using A1 tools for coding tasks. Activities: Generate Python programs, debugging suggestions , comments/documentation and test cases. Example Tasks like Prime number checker, Sorting algorithm, File handling program. Deliverables: Prompt set, code, Error analysis.

P5. Structured Output Prompting. Objective: Generate machine—readable outputs. Activities: Create prompts that produce: JSON, tables, CSV, markdown reports. Example: "Extract student details and return valid JSON." Deliverables: Prompt-output pairs, Validation report.

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P6. A1 Hallucination and Fact Verification. Objective: Study limitations of generative A1. Activities: Ask factual and ambiguous questions, detect hallucinations, verify answers using trusted sources. Suggested Topics: historical facts, technical specifications, recent events. Deliverables: Hallucination Verification report.

P7. Prompt Optimization and Iterative Refinement. Improve outputs through iterative Activities: Students refine prompts in multiple iterations. Metrics: relevance, accuracy, completeness, token efficiency. Deliverables: Version history of prompts, Before/after comparison .

P8. Prompt Chaining and Workflow Design: Build multi-step A1 workflows. Activities: Create a workflow: Summarize article, Extract keywords, Generate quiz questions, Produce final report. Deliverables: Workflow diagram, Prompt chain documentation.

P9. AI-Assisted Content Generation: Generate domain-specific content responsibly. Activities: Create technical blogs, email drafts, product descriptions and FAQs. Constraints: tone control, word limits, audience targeting. Deliverables: Content portfolio and Prompt rationale.

P10. Engineering for Data Analysis. Objective: Use prompts for interpreting datasets. Activities: Students provide CSV samples, statistical summaries, chart interpretations. Tasks: Generate insights, Explain trends, Create executive summaries. Deliverables: Dataset analysis report and AI-generated insights evaluation.

P11. Ethical AI and Secure prompting. Understand ethical risks and misuse prevention. Topics: prompt injection, bias, privacy leakage, misinformation and AI use. Activities: Analyze unsafe prompts and redesign them safely. Deliverables: Ethics case study report, Safe prompt redesign.

P12. Mini Project: AI Prompt Application: Develop a small A1-powered application/workflow. Date of CBOS: Sign of Members: Suggested Projects: AI study assistant, Resume analyzer, FAQ chatbot, Automated email generator, Code explainer, and AI tutor. Requirements: prompt documentation, testing, evaluation metrics and presentation/demo. Deliverables: Mini project report, Demonstration and Source code/prompts.

Reference Books

- Sandra Cable, Steven Freund, Ellen Monk, Susan Sebok, and Misty Vermaat, Microsoft 365 Office 2021 : Introductory (The Shelly Cashman Series), Cengage, 2022
- Misty vermaat, word, Office 365 2021 , Cengage, 2022 Peter Weverka and Matt Wade, Microsoft Office 365 All-in-One for Dummies, Edition, Wiley Publication, 2023.
- Dan Gookin, Microsoft 365 Word for Dummies. 2nd Edition, Wiley publication, 2025.
- David H. Ringstrom, Michael Alexander, Dick Kusleika, Paul McFedries, and Ken Bluttman, Microsoft 365 Excel All-in-One for Dummies, Wiley publication, 2025.
- Doug Lowe, Microsoft 365 PowerPoint for Dummies, 2ml Edition, Wiley publication, 2025.

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SYLLABUS

Department of Computer Science

Multi-Disciplinary Course (MDE)

Academic Curriculum & Syllabus

Programme Level	UG
Academic Session	2026-2027
Department	all

PROGRAM OUTCOMES

PO1. Analyse and solve computational problems logically.

PO2. Design and develop effective software solutions.

PO3. Follow ethical and professional computing practices.

PO4. Understand social and environmental impacts of computing.

Syllabus Book

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SYLLABUS

Department	Department of Computer Science	Program	Multi-Disciplinary Course (MDE)
Level	UG	Semester	III
Course Code		Course Type	Multi-Disciplinary Course (MDE)
Paper	NA	Course Title	DM - Digital Business Transformation and Innovation
Credit	3	Session	2026-2027

Course Outcomes

CO1. Understand the concept and importance of digital business transformation.

CO2. Analyze Indian Knowledge System (IKS) principles in modern business and innovation.

CO3. Understand digital technologies such as AI, IOT, Cloud Computing, and Data Analytics.

CO4. Explore digital business models and innovation strategies.

CO5. Examine digital marketing, e-commerce, and customer experience transformation.

CO6. Evaluate challenges, risks, ethics, and future trends in digital transformation.

UNIT 0	Content	Duration
1	Indian Knowledge System (IKS) and Business Innovation :Introduction to Indian Knowledge System (IKS), Ancient Indian business practices and trade systems , Kautilya's Arthashastra and strategic management principles, Ethical leadership and sustainable business in Indian philosophy , Innovation and entrepreneurship in ancient India, Swadeshi, self-reliance, and Atmanirbhar Bharat, Role of Indian values in modern digital enterprises, Traditional knowledge and modern innovation ecosystems	9
2	Introduction to Digital Business Transformation : Concept of digital transformation, characteristics of digital business, digital economy, digital disruption, business transformation digital platforms, e- business and e-commerce role of technology in business growth	9
3	Emerging Technologies and Innovation Topics: Artificial Intelligence (AI), Internet of Things (IOT), cloud computing, blockchain technology, big data analytics, automation, fintech innovations, smart business systems, innovation management, digital entrepreneurship	9
4	Digital Marketing and Customer Experience : Digital business models, Platform economy and gig economy, E-commerce and mobile commerce, Digital marketing and media strategies, Customer Relationship Management (CRM) Customer experience and personalization, Omni channel business strategies, Innovation in services and products.	9
5	Future Trends, Ethics, and Sustainability in Digital Business : Green and sustainable digital business,Ethical issues in digital transformation, Data privacy and digital governance, Smart cities and smart enterprises, Future of work and digital workforce, Innovation ecosystems and startups, Digital India initiatives,Future trends in business innovation	9

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Assessment Scheme

Component	Credit	Internal	External	Total
Theory	3	-	100	100

Reference Books

- Digital Transformation — Thomas M. Siebel
- Leading Digital— George Westerman
- The Digital Economy — Don Tapscott
- Business Model Generation — Alexander Osterwalder
- Digital Business and E-Commerce Management — Dave Chaffey

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