



Kot Bhalwal, Jammu



Model Institute of Engineering
& Technology (Autonomous)
Course Handout

COURSE HANDOUT

FOUNDATIONS OF IT (BBALLB-305)

BBALLB. -3RD SEMESTER

ACADEMIC YEAR (2024-25)

Sukhmeet Kour

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Department of Computer Science and Engineering



Department of Computer Science and Engineering

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Dr. Arun K. Gupta Teaching-Learning Centre

Version 1.1



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Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
							Sessional	Final Exam	Total
BBALLB-305	Foundations of IT	Minor	4	4	0	0	40	60	100

COURSE OUTCOMES

At the end of the course the student will be able to:	
CO1	Examine the concept and importance of Information System in business.
CO2	Appreciate the types of computer networks
CO3	Comprehend the role of Information systems in strategic decision making.
CO4	Analyse the various ethical and security issues in implementation of Information technology.
CO5	Apply the emerging trends and applications of IT in business

Unit-I

IT in Business Environment: Business in the information age, Basic concepts of information systems, IT support at different organization levels, Managing information technology in organizations, IT people and careers, Role of IT in business and society.

(09 Hrs)

Unit-II

Computer Systems and Networks: Computer Systems- Hardware -I/O devices, Memory devices, Processors-Software - classification of software- systems software, Application software- Operating Systems- Definition Types of OS, Understanding of GUI- Networks- Definition- Types of Networks- LAN, WAN- Network Topologies- Physical Communication Media-TCP/IP, OSI Model.

(10 Hrs)

Unit-III

Strategic Information System and Reorganisation: Strategic Advantage and Information Technology, Porter’s Competitive force model and IT, Strategic Information systems; Ineffective organisations in the information age; Business Process Reengineering; Virtual Corporations and Information Technologies.

(10 Hrs)

Unit- IV

Implementing IT: Ethics, Impact and Security: Ethical Issues, Impacts of IT on Jobs and organisation, Impact on Individuals at work; Societal Impacts and internet communities; security Issues and challenges.

(09 Hrs)

Unit-V

Emerging trends and Applications in IT: Internet of Things (IOT); Big Data Analytics; Cloud Computing; Artificial Intelligence; Virtual and Augmented Reality; IT Governance, Operational risk and governance, Governance of internal IT processes, E governance framework, E Commerce, Digital markets, electronic data security.

(10 Hrs)

Textbooks

S.No	Name of the Books	Name of the Author	Publisher Name	Edition (Pub.Yr.)
1	Information Technology for Management	B. Muthukumar	Oxford University Press	4 th (2012)





2.	Introduction to Information Technology	Turban, Rainer & Potter	Wiley Student Edition	2 nd (2008)
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Reference Books

S.No	Name of the Books	Name of the Author	Publisher Name	Edition (Pub.Yr.)
3	Information Technology for Management	Turban, Volonino, Wood, Wali	Wiley	2 nd (2021)

COURSE PLAN		
Unit-I IT in Business Environment		
S.No	Topics	Recommended Books
1	Business in the information age	Book 2, Ch.1
2	Basic concepts of information systems	Book 2, Ch.1
3	IT support at different organization levels	Book 1, Ch.1
4	Managing information technology in organizations	Book 2, Ch.2
5	IT people and careers	Book 2, Ch.2
6	Role of IT in business and society	Book 2, Ch.2
Unit-II Computer Systems and Networks		
7	Computer Systems- Hardware -I/O devices	Book 2, Ch.3
8	Memory devices	Book 2, Ch.3
9	Processors- Software - classification of software- systems software, Application software	Book 2, Ch.4
10	Operating Systems- Definition Types of OS, Understanding of GUI	Book 2, Ch.4
11	Networks- Definition- Types of Networks- LAN, WAN-	Book 2, Ch.6
12	Network Topologies	Book 1, Ch.5
13	Physical Communication Media-TCP/IP	Book 1, Ch.2
14	OSI Model	Book 2, Ch.2
Unit-III Strategic Information System and Reorganisation		
15	Strategic Advantage and Information Technology	Book 2, Ch.13
16	Porter's Competitive force model	Book 2, Ch.13
17	Strategic Information systems	Book 2, Ch.13
18	Ineffective organisations in the information age	Book 2, Ch.13
19	Business Process Reengineering	Book 2, Ch.13
20	Virtual Corporations and Information Technologies	Book 2, Ch.13
Unit-IV Implementing IT: Ethics, Impact and Security		
21	Ethical Issues	Book 2, Ch.15
22	Impacts of IT on Jobs and organization	Book 2, Ch.15
23	Impact on Individuals at work	Book 2, Ch.15
24	Societal Impacts and internet communities	Book 2, Ch.15
25	Security Issues and challenges	Book 2, Ch.15
Unit-V Emerging trends and Applications in IT		
26	Internet of Things (IOT)	Book 2, Ch.15
27	Big Data Analytics	Book 2, Ch.13



28	Cloud Computing	Book 2, Ch.13
29	Artificial Intelligence	Book 2, Ch.13
30	Virtual and Augmented Reality	Book 2, Ch.13
31	IT Governance	Book 2, Ch.13
32	Operational risk and governance	Book 2, Ch.15
33	Governance of internal IT processes, E governance framework	Book 2, Ch.13
34	E Commerce, Digital markets, electronic data security	Book 2, Ch.13

ADDITIONAL WEB RESOURCES

1.	NPTEL- Lecture on topic network topologies https://www.youtube.com/watch?v=NSHj9BLnhj0
2.	NPTEL: NPTEL Lecture on Emergence of Networks & Reference Models https://www.youtube.com/watch?v=3DZLIftbqtQ

GRADING AND ASSESSMENT

- **Sessional Test:** 20 marks
- **Assignment:** 10 marks
- **Attendance:** 10 marks
- **Final Examination:** 60 marks

COURSE POLICIES

- **Attendance:** Minimum 75% attendance is mandatory to appear in the final examination of the course.
- **Academic Integrity:** MIET's academic integrity policies apply. Plagiarism will not be tolerated.
- **Late Submissions:** Assignments and projects must be submitted by the specified timelines.

FACULTY INFORMATION

- **Office Hours**
Monday (12:05 PM - 12:55 PM)
Friday (12:05 PM - 12:55 PM)
- **Contact Information** sukhmeet.cse@mietjammu.in