



INTERNATIONAL MANAGEMENT INSTITUTE BHUBANESWAR
POST GRADUATE DIPLOMA IN MANAGEMENT (PGDM)
INFORMATION TECHNOLOGY FOR DECISION MAKING (IS501)
CREDIT: 2 credits
SESSION DURATION: 60 Minutes

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Term: I
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Batch: I

Introduction

The most important responsibility of a manager is to take the right decision on the basis of available information so as to propel the organization in the direction of its goals. The rapid growth of information technology (IT) and its applications has ensured that it plays a pivotal role as the facilitator of decision making. Information technology not only enables the managers to access, prioritize and utilize a wealth of information very quickly and accurately, but also helps in analyzing data for relevant knowledge and useful information that seems beyond our ability to filter and process. The speed and flexibility, it provides, enables organizations to remain competitive and sustainable. Whether integrating the organization through ERP system, developing customer relationship management systems or human resource management system, or executing financial transaction in electronic markets, information technology helps in linking all the different functions together in an integrated way and getting information to decision makers at the right time and in the right format.

The course prepares students to leverage information technology effectively. The course focuses on the opportunities and challenges posed by information technology, how they affect the world and what managers need to know for effective decision making through information technology. Therefore, the purpose of this course is to create an understanding of various software and their applications which aid data analysis and decision making. The course introduces students to data analysis using MS Excel and SPSS. The course endeavors to provide students with hands-on experience on decision making in different domains.

Learning Outcomes

The specific learning outcomes of the course are:

1. To provide basic concept about role of information technology in managerial decision making. (LO1)
2. To gain hands-on experience on MS Excel for data management, data analysis and decision-making. (LO2)
3. To impart the knowledge in excel about creating decision models for marketing applications. (LO3)

4. To create decision models in excel through analysis tool pack. (LO4)
5. To create Business Forecasting & Monte Carlo Simulation models in excel. (LO5)

Pedagogy

The sessions will be a blend of interactive lectures, class discussions and will be supplemented by case analysis and exercises. In each session students will have hands-on exercises and through these exercises they will understand application of IT in managerial decision making.

Course Readings

Books

- Wayne L. Winston, *Microsoft Excel 2016: Data Analysis & Business Modeling*, New Delhi: PHI. (DABM)
- D. George and P. Mallery, *SPSS for Windows Step by Step: A Simple Study Guide and Reference*, 17.0 Update, 10/e, by Pearson Education. (SWSS)
- Efraim Turban, R.K. Rainer & R. Potter (2009). *Introduction to Information Technology*, New Delhi: Wiley India Pvt. Ltd., 526 pages. (INIT)
- Paul Cornell, *Accessing & Analyzing Data with MS-Excel*, PHI.
- Addition handouts/case studies will be provided during the course.

Evaluation:

Evaluation Components	Marks	LO attainment
Quiz	10	LO2,LO3,LO4
Assignment	10	LO5
Presentation	10	LO2, LO3, LO4
Mid Term Examination	30	LO1, LO2, LO3
End Term Examination	40	LO3, LO4, LO5
Total	100	

****Class Participation:** Students are expected to be sincere in the class in terms of reaching the class on time, solving the class-room cases and exercises properly and submitting assignments on time. They should maintain the decorum inside the class and respect the fellow participants. Mere presence in the class doesn't guarantee full CP marks. Students should actively involve in solving the problems and give their inputs constructively to drive class further in a positive direction.

Plagiarism

We are committed to upholding the highest standards of academic integrity and honesty. Plagiarism is the use of or presentation of ideas, works that are not one's own and which are not common knowledge, without granting credit to the originator. You may refer the already available content just for your reference and to get the basic ideas. Only 20% of such content is acceptable, above that comes under the definition of Plagiarism which is unacceptable in IMI and will be treated seriously. All such cases will be referred to the appropriate body of the Institute for suitable disciplinary action.

Session Plan

SESSION	TOPIC	Learning Outcomes	Readings
1	<p>Topic: Role of IT in Decision Making Process</p> <p>Objectives: To learn</p> <ul style="list-style-type: none"> • Introduction to Information Technology • Basic introduction to MS excel, use of worksheet functions, performing calculations and formatting data • Range Names 	LO1	<p>R: Pages 1-24 from Chapter 1 of INIT</p> <p>R: Chapter 1 of DABM</p>
2 – 4	<p>Topic: Introduction to Excel and Role of Excel in helping and facilitating Decision Making</p> <p>Objectives: To learn</p> <ul style="list-style-type: none"> • IF Function • Sorting and Filtering data • Various reference types and their relevance 	LO1, LO2	R: Chapter 3, 11, 12, 25, 49 from DABM
5 – 6	<p>Topic: Conditional Formatting</p> <ul style="list-style-type: none"> • Build in • Logical Formula 	LO2	R: Chapter 24 from DABM
7	<p>Topic: Data Representation and Analysis</p> <p>Objectives: To learn</p> <ul style="list-style-type: none"> • Creating various charts and learning their use • Activation of Analysis ToolPack 	LO4	R: Chapter 52, 42 from DABM
8 – 10	<p>Topic: Creating Decision models for marketing applications</p> <p>Objectives: To learn marketing applications through</p> <ul style="list-style-type: none"> • Use of Paste Special Command • Constructing PivotTable in excel 	LO3	R: Chapters 14, 43 from DABM
11 – 14	<p>Topic: Creating Decision models for marketing applications</p> <p>Objectives: To learn marketing applications through</p> <ul style="list-style-type: none"> • Lookup, VLookup, HLookup Functions • Text Functions • Solving business problem using What-if analysis in excel: <ul style="list-style-type: none"> -Goal Seek -What-if analysis using Data Tables -Sensitivity analysis using Scenarios 	LO3	R: Chapter 3, 6, 17, 18, 19 from DABM

15 – 16	<p>Topic: Creating decision models through analysis tool pack</p> <p>Objectives: To learn analysis applications through</p> <ul style="list-style-type: none"> • Consolidating Data • Histograms • Solving business problems using Analysis ToolPack • Regression and other Data Analysis methods 	LO4	R: Chapter 42, 50, 56 from DABM
17 – 20	<p>Business Forecasting & Monte Carlo Simulation</p> <p>Objectives: To learn</p> <ul style="list-style-type: none"> • Random Numbers Generation • Random Number allocation with probability • Learning Monte Carlo Simulation 	LO5	R: Chapter 74, 75, 76 from DABM

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