



**Basic Information:**

<b>Title:</b> ERP & Business Systems	<b>Code:</b> IT 561
<b>Program:</b> MBIT via BBIT	<b>Credit Hours:</b> Three (03)
<b>Sessions:</b> 30 Classes + Mid Term + Final Term	<b>Pre-Requisite:</b> BBIT

**Course Description:**

*This course provides you with an understanding of what Enterprise Systems are. This Course introduces SAP, Enterprise Resource Planning. The course is intended to explain how the fundamental business processes interact within an ERP system in the functional areas of sales and distribution, materials management, production planning, financial accounting, controlling, and human resource management.*

**Learning Outcomes:**

*After completing this course, students will be able to*

- ✓ *identify the factors that led to the development of Enterprise Resource Planning (ERP) systems*
- ✓ *discuss the pros and cons of implementing an ERP system*
- ✓ *explain how integrated data sharing increases company-wide efficiency*
- ✓ *use the ERP System, Perform Customizations and construct different reports.*
- ✓ *manage an ERP implementation project and define RFID and its role in logistics and sales*
- ✓ *Define business intelligence (BI), and provide examples of its uses*

**Teaching Learning Methodology:**

*The formal teaching component of this course consists of active student participation in and contribution to all forms of teaching and learning i.e. lectures, discussions, research assignments and projects. Lectures will be twice a week of 90 min each.*

*We also plan a real time Demo sessions of different ERP system using in the world, so student got the real flavor and get the maximum practical knowledge of different ERP Products.*

**Group Configurations:**

*One of the objectives of this course is to encourage and facilitate teamwork. Class will have to make a group of four for projects and research assignments. Its highly preferred to make group including IT, Marketing and Finance, As ERP is the merger of all these, so group will better perform and get the flavors of all modules in ERP.*

**Weekly Term Plan**

<b>Wk</b>	<b>Lecture Topic</b>
01	<i>Introduction to MIS and ERP</i>
02	<i>Information Culture and ERP, Business Functions and Process</i>
03	<i>IT and Productivity, ERP Systems, Emergence of ERP Software's</i>
04	<i>ERP systems for Midsized companies</i>
05	<i>Integration of Sales and Accounting, CRM and Order Management</i>
06	<i>Sales and Operations Planning, Material Requirements Planning</i>
07	<i>Procurement process, Human Resource Management</i>
08	<i>Mid Term Examination</i>
09	<i>Interview and Hiring Process, Performance Management Process</i>
10	<i>Accounting Activities, ERP and Financial Reporting, Process Modeling</i>
11	<i>ERP Evaluating and Selection process, Implementing ERP systems</i>
12	<i>ERP Systems Development Lifecycle</i>
13	<i>ERP Training and Support. Reporting, ERP Implementation</i>
14	<i>ERP Customization, Cloud ERP Systems</i>
15	<i>Mobile Computing, BI, ERP</i>
16	<i>Final Term Examination</i>



### Topic in Details

**Introduction to ERP**

- Introduction to ERP*
- Comparison of MIS Vs ERP*
- What Is ERP?*
- Characteristics of ERP*
- Top Vendors of ERP*
- History of ERP from MRP, MRP1 and MRP2*
- Evolution to Cloud ERP*

**Business Functions and Process**

- Business Functions Performed in the Enterprise*
- System Facilitation in Process Management.*

**ERP Systems and their Emergence**

- Implementing the ERP System*
- Value Addition Through ERP*
- ERP Systems for Companies*
- ERP Vendor Bifurcations*

**Sales and Presales**

- Process in the ERP*
- Integration of Sales and Accounting*
- CRM and Order Management*
- Production Planning and Forecasting Sales*

**Real Time ERP System**

- Demo of Real Time ERP System*
- Sales, Financial, Inventory, Human Resource and*
- Production*

**Procurement Process**

- Procurements in the ERP System*
- Prerequisites of Procurement*
- Management of Multiple Vendors*
- Credit Limits Management*

**Human Resource Management**

- Managing the Human Resources*
- From Hiring to Final Settlement.*
- Monthly Attendance*

- Payroll Management*
- Development of the Existing Resource.*

**Accounting Activities**

- Chart of Accounts*
- Identifying the Transactional accounts*
- Main Headers in the Accounts.*
- Finalization of Level of Chart of Accounts*

**ERP Evaluation and Selection**

- Selecting the Right ERP for Your Organization*
- Your Business Needs*
- Minimum Customization. as Every*
- Industry Process Uniqueness*

**ERP Implementation**

- 'Be Analysis' and 'As Is Analysis'*
- Training and Support Contracts.*

**ERP Customization and Reporting**

- Customization of ERP as per Organization Needs*
- Maximization of ERP Benefit for Organization*

**Cloud ERP Systems**

- Emergence*
- Impact on Organization*

**ERP Integrations**

- Customization of Cloud ERP*
- Programming Languages and Tools*

**Cloud ERP**

- Cloud ERP Integration with other Systems*
- Real Time Demo of Cloud ERP*
- Fully SaaS Model ERP*

**Implementation Methodology**

- Implementing Methodology of Cloud ERP*
- Brief Introduction about Sand Box*
- Mobile ERP*
- ERP Integration with Different Devices.*

**Text & Recommended Readings**

- A. *Enterprise Resource Planning 3<sup>rd</sup> E*  
*Bret Wagner, Ellen Monk*
- B. *Modern ERP: Select, Implement, and Use*  
*Today's Advanced Business Systems 3<sup>rd</sup>*  
*Edition*  
*Marianne Bradford*
- C. *How to Select Your ERP Without Losing Your*  
*Mind*  
*By Andy Pratico*

**Assignment Specification**

- 1. *Microsoft Access & Microsoft Visio*
  - 2. *Microsoft Word for Documentation*
- Headings            Arial 11pt Bold*  
*Normal Text       Times New Roman 10pt*  
*Header Footer    Times New Roman 8pt*  
*Paragraph           Single Line Spacing*  
*First Line Indent 1.0 cm*  
*Page Margins     2 cm from each side*



**Grading Policy:**

Final Grade for this course will be the cumulated result of the following term work with relevant participation according to the quoted percentage.

<b>Sessional</b>	<b>25%</b>	<b>Mid Term</b>	<b>35%</b>	<b>Final Term</b>	<b>40%</b>
Assignments	10 %	Mid Term Exam	25%	Final Exam	30%
Quizzes	10%	Lab Work/ Lab Mid Exam	10%	Case Study/ Project/ Term Paper	10%
Presentations	05%				

*Remember subdivision of Mid Term and Final Term Examination should be done only in case of very essential and major Grading Instruments.*

**Dishonest Practices & Plagiarism**

A student found responsible for dishonest practice/cheating (copying the work of others, use of unauthorized material in Grading Instruments etc.) in relation to any piece of Grading Instrument will face penalties like deduction of marks, grade 'F' in the course, or in extreme cases, suspension and rustication from IBIT.

For details consult Plagiarism Policy of the PU at <http://pu.edu.pk/dpcc/downloads/Plagiarism-Policy.pdf>

**Grading System:**

<b>Letter Grade</b>	<b>Grade Point</b>	<b>Num Equivalence</b>
A	4.00	85 – 100 %
A-	3.70	80 – 84 %
B+	3.30	75 – 79%
B	3.00	70 – 74 %
B-	2.70	65 – 69 %
C+	2.30	61 – 64 %
C	2.00	58 – 60 %
C-	1.70	55 – 57 %
D	1.00	50 – 54 %
F	0.00	Below 50 %
I	Incomplete	*
W	Withdraw	*

**Norms to Course:**

- ✓ Submission Date and Time for the term instruments is always **Un-Extendable**
- ✓ 7 Absentees in class will be result in forced withdrawal. **(PU Policy)**
- ✓ Re-sit in Mid and Final Term will cause you a loss of 2 and 3 grade marks respectively. **(PU Policy)**
- ✓ This is your responsibility to keep track of your position in class evaluation units.
- ✓ After the submission date, NO excuse will be entertained.
- ✓ **Keep a copy of all submitted Grading Instruments.**
- ✓ Assignment is acceptable only in its Entirety.
- ✓ No make up for any assignment and quiz.
- ✓ Copied & Shared work will score Zero.
- ✓ Assignments are Individual.

**Good Luck**

**For the Fall Term 2019**