Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME								
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GESVIIT601U	GEC	Enterprise Resource Planning	60	20	20	0	0	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:
1. Introduce the ERP and related technologies.
2. Describe ERP Manufacturing Perspective and ERP modules.
3. Study the basic ERP implementation lifecycle, emphasis on ERP benefits.
4. To train the students to develop the basic understanding of how ERP enriches the business organizations in achieving a multidimensional growth.

Course Outcomes:
1. Understand and explain various fundamentals and modules of Enterprise Resource Planning (ERP).
2. Familiar with ERP related technologies like BPR, SCM, etc.
3. Design the implementation of ERP life cycle, E-Business, E-Commerce, SCM, CRM.
4. Understand the introductory level implementation scenarios of various ERP packages.

Syllabus:

UNIT-I

Introduction to ERP, Enterprise – An Overview, Integrated Management Information, Business Modelling, Integrated Data Model. ERP and Related Technologies- Business Processing Reengineering (BPR), Data Warehousing, Data Mining, On-line Analytical Processing (OLAP), Supply Chain Management (SCM), Customer Relationship Management (CRM).

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME								
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GESVIIT601U	GEC	Enterprise Resource Planning	60	20	20	0	0	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
*Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT II

MIS - Management Information System, DSS - Decision Support System, EIS - Executive Information System. ERP Manufacturing Perspective- MRP - Material Requirement Planning, BOM - Bill of Material, MRP - Manufacturing Resource Planning, DRP - Distributed Requirement Planning, PDM - Product Data Management**.**

UNIT III

ERP Modules- Finance, Sales and Distribution, Manufacturing and Production Planning- Material and Capacity Planning; Shop Floor Control; Quality Management; JIT/Repetitive Manufacturing; Cost Management; Engineering Data Management; Engineering Change Control; Configuration Management; Serialisation/Lot Control; Tooling, Human Resource, Plant Maintenance- Preventive Maintenance Control.

UNIT IV

ERP Implementation Lifecycle- Pre-evaluation Screening, Package Evaluation, Project Planning Phase, Gap Analysis, Reengineering, Configuration, Implementation Team Training, Testing, Going Live, End-user Training, Post implementation (Maintenance mode).

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME								
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GESVIIT601U	GEC	Enterprise Resource Planning	60	20	20	0	0	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT-V

Introduction to ERP tools- JD Edwards-Enterprise One Microsoft Dynamics-CRM Module.Benefits of ERP- Reduction of Lead-Time, On-time Shipment, Reduction in Cycle Time, Improved Resource Utilization, Better Customer Satisfaction, Improved Supplier Performance, Increased Flexibility, Reduced Quality, Costs, Improved Information Accuracy and Design-making Capability.

Text Books:
1. Enterprise Resource Planning - Alexis Leon, Tata McGraw Hill, 2nd Edition, 2008.
2. Enterprise Resource Planning - Ravi Shankar & S. Jaiswal, Galgotia Publisher, 1999.
3. ERP in Practice, Jagan Nathan Vaman, Tata McGraw-Hill, Hardback Edition 2007.

Reference Books:
1. Guide to Planning ERP Application, Annetta Clewwto and Dane Franklin, McGRaw Hill, 1997.
2. The SAP R/3 Handbook, Jose Antonio, McGraw – Hill, 3rd Edition, 2006.
3. E-Business Network Resource planning using SAP R/3 Baan and Peoplesoft: A Practical Roadmap for Success by Dr. Ravi Kalakota.

Chairperson	**Chairperson**	**Controller of Examination**	**Joint Registrar**
Board of Studies	**Faculty of Studies**	**ShriVaishnavVidyapeeth**	**ShriVaishnavVidyapeeth**
ShriVaishnavVidyapeeth	**ShriVaishnavVidyapeeth**	**Vishwavidyalaya, Indore**	**Vishwavidyalaya, Indore**
Vishwavidyalaya, Indore	**Vishwavidyalaya, Indore**		