RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR SOFTWARE ENGINEERING	FORMAT-3	Sheet No. 1/4
Branch		**Computer Science and Engineering/Information Technology**	**Semester**	**V**
Course Code	**502**	**Course Name**	**SOFTWARE ENGINEERING**	

Course Outcome 1	**Explain the concept of Software Engineering with Software development models and Project Planning.**	Hrs	Marks
Learning Outcome 1	**Understand Basics of S/W Engineering.**	08	10
Contents	Software characteristics, Classification & Myths, S/W Engineering Definition, Need, Components, application, process, methods, tools.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 1**		
Learning Outcome 2	**Classify S/W Development Models.**	09	10
Contents	S/W Process Capability Maturity Model, Life Cycle Models -water fall, incremental, spiral, RAD, prototyping, object oriented V and fourth generation model.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 2**		
Learning Outcome 3	**Demonstrate Project Planning with Resource management.**	08	10
Contents	Project Planning Objectives, Software project estimation & technique, Decomposition techniques, Estimation models, Scheduling, Staffing, S/W Configuration & Risk management.		
Method of Assessment	**Question Paper-Internal Progressive Test-I**		
Course Outcome 2	**Elaborate the Software Requirement Analysis and Specification with their techniques.**	Hrs	Marks
Learning Outcome 1	**Identify S/W Requirements and Specification.**	09	10
Contents	Analysis principles, system specification, software requirement specifications, functional and Non-functional specifications, S/W Prototype Specification.		
Method of Assessment	**Question Paper-Internal Progressive Test-II**		
Learning Outcome 2	**Organize data and operations with data modeling.**	09	10

Contents	Data modeling-process, types, importance, advantages & Disadvantages, Data flow diagrams-components, Symbols Rules, levels, Examples.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 3**		
Learning Outcome 3	**Utilize Data Modeling techniques.**	07	10
Contents	ER Diagram, Structured analysis & Data dictionary.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 4**		
Course Outcome 3	**Interpret S/W Design process, methods & Object Oriented concepts.**	Hrs	Marks
Learning Outcome 1	**Discuss Design Concepts.**	12	10
Contents	Design Process, Objectives, Principles, Concepts, Effective Modularization, concurrency, Coupling & Cohesion, Design Documentation.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 5**		
Learning Outcome 2	**Categorize Design Methodologies.**	05	10
Contents	Architectural Design- Process & Optimization, Procedural Design-Tools.		
Method of Assessment	**Internal Lab Test Practical Observation.**		
Learning Outcome 3	**Extend Analysis & Design to Object Oriented Concept.**	07	10
Contents	Object Oriented Concepts, Unified Modeling language with Diagram, Use Case Diagram, Class Diagram, Sequence Diagram, State Chart Diagram, Data Flow Diagram, Elements Of Object Modeling, Object Oriented Analysis, Domain Analysis and OOA Process.		
Method of Assessment	**Internal Lab Test Practical Observation.**		
Course Outcome 4	**Illustrate Fundamental of Software Testing, Implementation, Maintenance and Quality Management.**	Hrs	Marks
Learning Outcome 1	**Explain Fundamental of Software Testing.**	13	10

Contents	Software Testing Fundamentals: Principles & objectives, V model. Testing Methodology: Unit Test, Integration Test, Functional testing, System Testing, Acceptance test, White Box & Black Box testing techniques Gray box testing, Retesting and Regression testing, Debugging & reliability Analysis.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 6**		
Learning Outcome 2	**Examine Software Reliability and Quality Management.**	09	10
Contents	Software Reliability And Quality Management: Concepts of S/W Quality Control and Assurance, Software Reliability, ISO 9000 & 9001, Standard SEI – CMM.		
Method of Assessment	**Question Paper -External- RGPV End Sem Theory Exam 7**		
Learning Outcome 3	**Conclude Software Implementation and Maintenance.**	06	10
Contents	Characteristics reverse engineering, maintenance process model, estimation of maintenance cost		
Method of Assessment	**Internal –Term Work Assignment.**		
Course Outcome 5	**Develop Major Project Synopsis with Detailed Layout.**	Hrs	Marks
Learning Outcome 1	**Decide Project with their requirement.**	06	10
Contents	Objective of the Project, Title and Team Formation, Guide Allotment, Information Gathering, Literature Survey, Software, Hardware and Resource Requirements. **Note-Make use of CO1 (LO1, LO2 & LO3) and CO2 (LO1).**		
Method of Assessment	**External Lab Test Observation**		
Learning Outcome 2	**Identify Analysis and Design of the Project.**	06	10
Contents	Detailed Analysis & Design by using different tools like Data Flow Diagram, E-R Diagram, Class and Sequence Diagram etc. **Note-Make use of CO2 (LO2 & LO3) and CO3 (LO1, LO2 & LO3).**		
Method of Assessment	**External Lab Test Observation**		

Learning Outcome 3	Build Synopsis Document of Major Project.	06	10
Contents	Synopsis Document typed with word count between 500 and 700 words including Clear Picture/View of Project, Scope/Area, Technology and Method Used, Limitations and Conclusion.		
Method of Assessment	External Lab Test Observation		

TEXT BOOKS:
Roger S. Pressman, Software Engineering A Practitioner's Approach, McGraw Hill.
REFERENCE BOOKS:
• Software engineering A Precise Approach by Pankaj Jalote's ,Wiley India.
• Software Engineering: A Practitioner's Approach by Bruce R. Maxim & Roger S. Pressman.
• Software Engineering Tenth Edition By Ian Sommerville.
• Rajib Mall, Fundamental of Software Engineering, PHI.
• Software Engineering by Kassem A. Saleh J.Ross Publishing.
• Ron Patton, Software Testing, BPB.
• Gazzi, Fundamental of Software Engineering, PHI.
• Maryhauser Anneliese Von, Software Engineering Methods Management.
• Rajaraman V, Analysis and Design of Information System, PHI.

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No. **4**
		C04	**502**	**1**	**1**	

COURSE NAME	**SOFTWARE ENGINEERING**
CO Description	**Explain the concept of Software Engineering with Software development models and Project Planning.**
LO Description	**Understand Basics of S/W Engineering.**

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Software characteristics, Classification & Myths, S/W Engineering Definition, Need, Components, application, process, methods, tools.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	08	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**RGPV End Sem Theory Exam 1**	**For the given content student will be asked need of Software Engineering and their methods**	**10**	**Question/Test Papers /quiz questions**	**External**

ADDITIONAL INSRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No. **4**
		C04	**502**	**1**	**2**	

COURSE NAME	**SOFTWARE ENGINEERING**
CO Description	**Describe the concept of Software Engineering with Software development models and Project Planning.**
LO Description	**Classify S/W Development Models.**

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**S/W Process Capability Maturity Model, Life Cycle Models -water fall, incremental, spiral, RAD, prototyping, object oriented V and fourth generation model.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	09	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**RGPV End Sem Theory Exam 2**	**For the given content student will be able to select and adopt best S/W Life Cycle model.**	**10**	**Question/Test Papers /quiz questions**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No. 4
		C04	502	1	3	

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Describe the concept of Software Engineering with Software development models and Project Planning.
LO Description	Demonstrate Project Planning with Resource management.

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Project Planning Objectives, Software project estimation & technique, Decomposition techniques, Estimation models, Scheduling, Staffing, S/W Configuration & Risk management.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	08	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Progressive Test-I**	**For the given content student will be Plan their Project**	10	**Question/Test Paper /quiz questions**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 2	LO Code 1	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Elaborate the Software Requirement Analysis and Specification with their techniques.
LO Description	Identify S/W Requirements and Specification.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	Analysis principles, system specification, software requirement specifications, functional and Non-functional specifications, S/W Prototype Specification.	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	09	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Progressive Test-II	For the given content student will be Analyze software requirement specifications for their Project	10	Question/Test Paper /quiz questions	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME		Branch Code	Course Code	CO Code	LO Code	Format No.
				C04	502	**2**	**2**	**4**

COURSE NAME	SOFTWARE ENGINEERING
CO Description	**Elaborate the Software Requirement Analysis and Specification with their techniques.**
LO Description	**Organize data and operations with data modeling.**

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Data modeling-process, types, importance, advantages & Disadvantages, Data flow diagrams-components, Symbols Rules, levels, Examples.)**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	09	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**RGPV End Sem Theory Exam 3**	**For the given content student will be able to select and adopt best S/W Life Cycle model.**	**10**	**Question/Test Papers /quiz questions**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 2	LO Code 3	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Elaborate the Software Requirement Analysis and Specification with their techniques.
LO Description	Utilize Data Modeling techniques.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**ER Diagram, Structured analysis & Data dictionary.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	07	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**RGPV End Sem Theory Exam 4**	For the given content student will be able to make structure for their project	**10**	**Question/Test Papers /quiz questions**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 3	LO Code 1	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Interpret S/W Design process, methods & Object Oriented concepts.
LO Description	Discuss Design Concepts.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Design Process, Objectives, Principles, Concepts, Effective Modularization, concurrency, Coupling & Cohesion, Design Documentation.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	12	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**RGPV End Sem Theory Exam 5**	For the given content student will be able to adopt basic Design Concepts.	10	**Question/Test Papers /quiz questions**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No.
		C04	502	3	2	4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Interpret S/W Design process, methods & Object Oriented concepts.
LO Description	Categorize Design Methodologies.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Architectural Design- Process & Optimization, Procedural Design- Tools.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	0	05	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Lab Test Practical Observation and viva voce.**	**For the given content student will be asked to Classify Design Process**	**10**	**Lab File/Question/Test Paper /quiz questions**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 3	LO Code 3	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Interpret S/W Design process, methods & Object Oriented concepts.
LO Description	Extend Analysis & Design to Object Oriented Concept.

RGPV (Diploma Wing) Bhopal

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Object Oriented Concepts, Unified Modeling language with Diagram, Use Case Diagram, Class Diagram, Sequence Diagram, State Chart Diagram, Data Flow Diagram, Elements Of Object Modeling, Object Oriented Analysis, Domain Analysis and OOA Process.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	0	07	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Lab Test Practical Observation and viva voce.**	**For the given content student will be asked to Extended Object Oriented Concepts**	**10**	Lab File/Question/Test Paper /quiz questions	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 4	LO Code 1	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Illustrate Fundamental of Software Testing, Implementation, Maintenance and Quality Management.
LO Description	Explain Fundamental of Software Testing.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Software Testing Fundamentals: Principles & objectives, V model. Testing Methodology: Unit Test, Integration Test, Functional testing, System Testing, Acceptance test, White Box & Black Box testing techniques Gray box testing, Retesting and Regression testing, Debugging & reliability Analysis.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	13	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	RGPV End Sem Theory Exam 6	For the given content student will be asked Fundamental of Software Testing	10	Question/Test Papers /quiz questions	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 4	LO Code 2	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Illustrate Fundamental of Software Testing, Implementation, Maintenance and Quality Management.
LO Description	Examine Software Reliability and Quality Management.

SCHEME OF STUDY

S. No.	Learning Content	Teaching - Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Software Reliability And Quality Management: Concepts of S/W Quality Control and Assurance, Software Reliability, ISO 9000 & 9001, Standard SEI –CMM.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	09	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	RGPV End Sem Theory Exam 7	For the given content student will be asked Reliability And Quality Assurance of Software	10	Question/Test Papers /quiz questions	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

<table>
<tr>
<td rowspan="2">RGPV (Diploma Wing) Bhopal</td>
<td rowspan="2" colspan="2">SCHEME FOR LEARNING OUTCOME</td>
<td>Branch Code</td>
<td>Course Code</td>
<td>CO Code</td>
<td>LO Code</td>
<td rowspan="2">Format No. 4</td>
</tr>
<tr>
<td>C04</td>
<td>502</td>
<td>4</td>
<td>3</td>
</tr>
</table>

COURSE NAME	**SOFTWARE ENGINEERING**
CO Description	**Illustrate Fundamental of Software Testing, Implementation, Maintenance and Quality Management.**
LO Description	**Conclude Software Implementation and Maintenance.**

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Characteristics reverse engineering, maintenance process model, estimation of maintenance cost**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	06	0	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Term Work**	**For the given content student will be asked to about estimation of maintenance cost of S/W Project**	**10**	**Assignments/Question /Test Paper /quiz questions**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 5	LO Code 1	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Develop Major Project Synopsis with Detailed Layout.
LO Description	Decide Project with their requirement.

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Objective of the Project, Title and Team Formation, Guide Allotment, Information Gathering, Literature Survey, Software, Hardware and Resource Requirements.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	0	06	Handouts /Chalk Board/Paper -Pen/Videos + ppt / Books / E-Contents	**Make use of CO1 (LO1, LO2 & LO3) and CO2 (LO1).**

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Lab Test Observation and viva voce**	**For the given content student will be asked to about Objective of the Project, Title, Team Formation and Resource Requirements.**	**10**	**Lab Manual/Question Paper /quiz questions/Vi-Va**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code C04	Course Code 502	CO Code 5	LO Code 2	Format No. 4

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Develop Major Project Synopsis with Detailed Layout.
LO Description	Identify Analysis and Design of the Project.

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Detailed Analysis & Design by using different tools like Data Flow Diagram, E-R Diagram, Class and Sequence Diagram etc.** .	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	0	06	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	**Make use of CO2 (LO2 & LO3) and CO3 (LO1, LO2 & LO3).**

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	**Lab Test Observation and viva voce**	**For the given content student will be asked to about Extended Analysis & Design Concepts.**	10	Lab Manual/Question Paper /quiz questions/Vi-Va	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code **C04**	Course Code **502**	CO Code **5**	LO Code **3**	Format No. **4**

COURSE NAME	SOFTWARE ENGINEERING
CO Description	Develop Major Project Synopsis with Detailed Layout.
LO Description	Build Synopsis Document of Major Project.

SCHEME OF STUDY

S. No.	Learning Content	Teaching -Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Synopsis Document typed with word count between 500 and 700 words including Clear Picture/View of Project, Scope/Area, Technology and Method Used, Limitations and Conclusion.**	Traditional Lecture method + Tutorial +Handout + Videos +Assignments + Quiz	Teacher will explain the contents and provide handout to students. Teacher will conduct quiz to make students practice their knowledge	0	06	Handouts /Chalk Board/Paper - Pen/Videos + ppt / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Lab Test Observation and viva voce	For the given content student will be asked to about Prepare Synopsis Document.	10	Lab Manual/Question Paper /quiz questions/Vi-Va	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)