

Walchand College of Engineering, Sangli

(An Autonomous Institute)



Second Year Engineering U.G. Program

Teaching and Evaluation Scheme (Structures)

(Senate, WCES, reserves the right to modify the structures and the contents of curricula as and when necessary)

Resolved and Ratified in 13th Senate meeting dated 26th May 2011



Walchand College of Engineering, Sangli

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year U.G. Program in Civil Engineering

I Semester

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
MA 201	Engineering Mathematics and Statistics	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CE 201	Building. Materials and Construction	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
AM 201	Structural Mechanics - I	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CE 202	Fluid Mechanics	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 201	Engineering Economics	3	--	--	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CE 251	Building. Materials and Construction Lab.	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CE 252	Fluid Mechanics Lab.	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CE 256	Survey Lab- I.	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		15	4	6	22	--	--	--	--	--

Total Credits: 22

Total Contact Hours/Week: 25 hrs

Note:

- §: Minimum 40% marks required in ISE to become eligible for ESE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.

Second Year U.G. Program in Civil Engineering

II Semester

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
CE 206	Surveying	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
AM 202	Structural Mechanics - II	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CE 204	Building Planning and Design	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CE 205	Water Resources Engineering	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 207	Environmental Science	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
AM 251	Structural Mechanics Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CE 256	Survey Lab-II	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CE 254	Building Planning and Design Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		15	5	6	23	--	--	--	--	--

Total Credits: 23

Total Contact Hours/Week: 26 hrs

Note:

- \$: Minimum 40% marks required in ISE to become eligible for ESE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.



Walchand College of Engineering, Sangli

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year UG Program in Mechanical Engineering

I Semester

Effective from July 2011

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing\$	Max	Min for Passing
ME211	Applied Thermodynamics	3	--	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME212	Material Science and Metallurgy	3	--	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME205	Analysis of Machine Elements	3	1	-	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME213	Machine Drawing and CAD	3	--	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
MA201	Engineering Mathematics and Statistics	3	1	-	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS207	Environmental Science	3	1	-	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME261	Thermodynamics Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
ME262	Material Science and Metallurgy Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
ME263	M/c drawing and CAD Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		18	3	6	24	--		--		--

Total Contact Hours/week : 27 hrs

Total Credits : 24

\$ - Minimum 40% marks required in ISE to become eligible for ESE



Walchand College of Engineering, Sangli

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year UG Program in Mechanical Engineering

II Semester

Effective from January 2012

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing §	Max	Min for Passing
ME214	Fluid Mechanics	3	-	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME215	Manufacturing processes and machine tools	3	1	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME216	Theory of Machines - I	3	1	-	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME206	Programming and Computational Methods	3	-	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME217	Energy and Power plant Engineering	3	1	-	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS201	Engineering Economics and Accounts	3	1	-	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
ME264	Fluid Mechanics Lab	-	-	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
ME256	Programming and Computational Methods Lab	-	-	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
ME265	Mechanical Workshop -II	-	-	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		18	4	6	24	--		--		--

Total Contact Hours/week : 28 hrs

Total Credits : 24

§ - Minimum 40% marks required in ISE to become eligible for ESE



Walchand College of Engineering, Sangli

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year U.G. Program in Electrical Engineering

I Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
MA 208	Applied Mathematics III	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 201	Analog Electronics	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 202	Electrical Circuit Analysis	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 203	DC Machines & Transformers	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 201	Engineering Economics	3	--	--	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 251	Analog Electronics Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
EE 252	Electrical Circuit Analysis Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
EE 253	DC Machines & Transformers Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
EE 254	Introduction to MATLAB	1	--	2	2	ISE	--	--	60	40
						ESE	--	--	40	40
Total		16	4	8	24	--	--	--	--	--

Total Credits: 24

Total Contact Hours/Week: 28 hrs

Note:

- §: Minimum 40% marks required in ISE to become eligible for ESE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.

Second Year U.G. Program in Electrical Engineering

II Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
EE 208	Signals & Systems	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 205	AC Machines	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 210	Electrical Measurements	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 207	Digital Systems & Microprocessors	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 207	Environmental Science	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
EE 255	AC Machines Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
EE 256	Electrical Measurements Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
EE 257	Digital Systems & Microprocessors Lab	--	--	4	2	ISE	--	--	60	40
						ESE	--	--	40	40
EE 258	Advanced Packages Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		15	5	10	25	--	--	--	--	--

Total Credits: 25

Total Contact Hours/Week: 30 hrs

Note:

- \$: Minimum 40% marks required in ISE to become eligible for ESE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.



Walchand College of Engineering, Sangli
(An Autonomous Institute)
Teaching and Evaluation scheme for
Second Year U.G. Program in Electronics Engineering
I Semester

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks%)		Practical (Marks %)	
							Max	Min for passing \$	Max	Min for passing
EN 201	Digital Systems and Microprocessor	4	-	-	4	ISE	20	40	-	-
					MSE	30			-	-
					ESE	50			-	-
EN 204	Data Structures and Algorithms	4	-	-	4	ISE	20	40	-	-
					MSE	30			-	-
					ESE	50			-	-
HS 207	Environmental Science	3	1	-	4	ISE	20	40	-	-
					MSE	30			-	-
					ESE	50			-	-
EN 211	Linear Circuits and Networks	3	1	-	4	ISE	20	40	-	-
					MSE	30			-	-
					ESE	50			-	-
EN 212	Electronic Circuit Analysis and Design*	3	1	-	4	ISE	20	40	-	-
					MSE	30			-	-
					ESE	50			-	-
EN251	DSM Lab	-	-	4	2	ISE	-	-	60	40
					ESE	-	-	40		
EN254	DSA Lab	-	-	2	1	ISE	-	-	60	40
					ESE	-	-	40		
EN261	Circuit Simulation Lab	-	-	2	1	ISE	-	-	60	40
					ESE	-	-	40		
EN262	ECD Lab	-	-	2	1	ISE	-	-	60	40
					ESE	-	-	40		
Total		17	3	10	25	-	-	-	-	-

Total Credits: 25
Total Contact Hours/Week: 30 hrs

Note:

\$: Minimum 40% marks required in ISE to become eligible for ESE.

*: Tutorial shall be based on use of circuit simulation software.

- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.

- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.



Second Year U.G. Program in Electronics Engineering II Semester

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical Marks (%)	
							Max	Min for passing \$	Max	Min for passing
EN 205	Microcontrollers and Peripherals	3	-	-	3	ISE	20	40	-	-
						MSE	30		-	-
						ESE	50		-	-
EN 206	Linear Integrated Circuits	4	-	-	4	ISE	20	40	-	-
						MSE	30		-	-
						ESE	50		-	-
EN 213	Signals and Systems	4	-	-	4	ISE	20	40	-	-
						MSE	30		-	-
						ESE	50		-	-
EN 214	Linear Algebra and Statistics	3	1	-	4	ISE	20	40	-	-
						MSE	30		-	-
						ESE	50		-	-
HS 201	Engineering Economics	3	1	-	4	ISE	20	40	-	-
						MSE	30		-	-
						ESE	50		-	-
EN 255	Microcontrollers and Peripherals Lab	-	-	4	2	ISE	-	-	60	40
						ESE	-	-	40	
EN256	Linear Integrated Circuits Lab	-	-	2	1	ISE	-	-	60	40
						ESE	-	-	40	
EN263	Scientific Computing Lab	1	-	2	2	ISE	-	-	60	40
						ESE	-	-	40	
Total		18	2	8	24	-	-	-	-	-

Total Credits: 24

Total Contact Hours/Week: 28 hrs

Note:

\$: Minimum 40% marks required in ISE to become eligible for ESE.

- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.



Walchand College of Engineering, Sangli
(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year U.G. Program in Computer Science & Engineering

I Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
CS 211	Discrete Structure	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 212*	Data Structure and Files	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 213*	Digital Systems & Microprocessor	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 214	Data Communication	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 207	Environmental Science	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 262*	Data Structure and files Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CS 263*	Digital Systems & microprocessor Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CS 281	Mini Project	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		15	5	6	23	--	--	--	--	--

Total Credits: 23

Total Contact Hours/Week: 26 hrs

Note:

- \$: Minimum 40% marks required in ISE to become eligible for ESE.
- *: Course common to S.Y. of CSE and IT.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.

Second Year U.G. Program in Computer Science & Engineering

II Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
MA 205	Computational Mathematics	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 221	Theory of Computation	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 222*	Advanced Microprocessor	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 223	Computer Network	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 224	Software Engineering	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
CS 275*	Object Oriented Programming Lab	2	--	2	3	ISE	--	--	60	40
						ESE	--	--	40	40
CS 273	Computer Network Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
CS 282	Mini Project	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		17	5	6	25	--	--	--	--	--

Total Credits: 25

Total Contact Hours/Week: 28 hrs

Note:

- \$: Minimum 40% marks required in ISE to become eligible for ESE.
- *: Course common to S.Y. of CSE and IT.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.



Walchand College of Engineering, Sangli

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year U.G. Program in Information Technology

I Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
MA 205	Computational Mathematics	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 211	Theory of Computation	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 212*	Data Structures And Files	4	--	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 213*	Digital Systems And Microprocessors	4	--	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 201	Engineering Economics	3	--	--	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 262*	Data Structures And Files Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
IT 263*	Digital Systems & Microprocessor	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
IT 281	Mini Project - I			2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		17	2	6	22	--	--	--	--	--

Total Credits: 22

Total Contact Hours/Week: 25 hrs

Note:

- \$: Minimum 40% marks required in ISE to become eligible for ESE.
- *: Course common to S.Y. of IT and CSE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.

Second Year U.G. Program in Information Technology

II Semester

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing \$	Max	Min for Passing
IT 221	Computer Graphics & Multimedia Techniques	3	--	--	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 222*	Advanced Microprocessor	4	--	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 223	Data Communication	3	--	--	3	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 224	Software Engineering	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
HS 207	Environmental Science	3	1	--	4	ISE	20	40	--	--
						MSE	30		--	--
						ESE	50		--	--
IT 272*	Advanced Microprocessor Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
IT 273	Multimedia Communication Lab	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
IT 275*	Object Oriented Programming Lab	2	--	2	3	ISE	--	--	60	40
						ESE	--	--	40	40
IT 282	Mini Project –II	--	--	2	1	ISE	--	--	60	40
						ESE	--	--	40	40
Total		18	2	8	24	--	--	--	--	--

Total Credits: 24

Total Contact Hours/Week: 28 hrs

Note:

- §: Minimum 40% marks required in ISE to become eligible for ESE.
- *: Course common to S.Y. of IT and CSE.
- Tutorials and practical shall be conducted in batches with batch strength not exceeding 18 students.
- ESE: End Semester Exam, MSE: Mid Semester Exam, ISE: In Semester Evaluation.
