COURSE OUTCOMES AND PROGRAM OUTCOMES	

1.1. The correlation between the Courses and the Program Outcomes (POs) and

Program Specific Outcomes (PSOs)

1.1.1. Course Outcomes (COs)

Semester: 1 Course Name: 30011-Communication English - 1

Year of study: I Year

Students will be able to

1	Use the language correctly, concisely and effectively in both spoken and written format.
2	Comprehend Engineering subjects in English and perform their professional activities using English.
3	Participate in group discussion, presentation, reporting and documentation successfully using English.
4	Recognize their latent talents and choose their careers accordingly.
5	Develop their lateral thinking abilities and thus identify innovative methods in solving problems in their lives.

Semester: Course Name: 30012 - Engg. Mathematics – 1 **Year of study**: Students will

be able to

1	Develop logical thinking which is useful in comprehending the principles of all other subjects.
2	Analytical and systematic approach towards any problem is developed through learning of this subject.
3	Acquire knowledge of algebra of complex numbers and its uses to solve equations having non-real solutions and knowledge of differentiation, principles and different methods,
4	Develop the ability to apply these methods to solve technical problems to execute management plans with precision.

Semester: 1 Course Name: Engg. Physics - 1**Year of Study: 1 year**

Students will be able to

1	Understand the importance of SI units and dimensional formulae.
2	Acquire broad ideas about resultant, moment of a force and torque of a couple.
3	Understand the elastic property and the types of Modulus of elasticity. Explain the surface tension of liquids and viscosity of fluids.
4	Understand Newton's laws of motion and equations of different types of motion.
5	Gain knowledge about rotational kinetic energy and angular momentum.

Semester: 1 **Course Name: Engg. Chemistry – 1 Year of Study: 1 year**

Students will be able to

1	Know about atomic structure, molecular mass and acids and bases.
2	Learn about solutions, colloidal particles and Nano-particles.
3	Know about hardness of water, catalysis and glass.
4	Explain the details of electrochemistry, electrochemical cell and energy sources.
5	Understand corrosion and its prevention methods.

Semester: 1   **Course Name: Engg. Graphics - 1   Year of Study: 1 Year**

Students will be able to

1	Understand the importance of drawing. Identify and use the drawing instruments
2	Practice the rules and methods of dimensioning.
3	Acquire knowledge about geometric construction.
4	Construct conics curves.
5	Draw the projection of points and straight lines.
6	Draw orthographic views from isometric drawings.

Semester: 1 **Course Name Engg. Physics Practical - 1 Year of Study: 1 Year**

Students will be able to

1	Understand Ohm's law and Faraday's laws of electromagnetic induction; solve problems on resistance combinations and energy.
2	Understand electronic components and their applications, working of rectifiers and logic gates.
3	Measure the various dimensions of given objects using instruments
4	Apply the vector concepts in engineering
5	Draw orthographic Apply the acquired knowledge of fluid dynamics in the field of engineering views from isometric drawings.
6	Apply the concepts of wave motion in engineering

Semester: 1 **Course Name: Engg. Chemistry Practical - 1   Year of Study: 1 Year**

Students will be able to

1	Know about atomic structure, molecular mass and acids and bases.
2	Learn about solutions, colloidal particles and nano-particles.
3	Know about hardness of water, catalysis and glass.
4	Explain the details of electrochemistry, electrochemical cell and energy sources.
5	Understand corrosion and its prevention methods.

1.1.2. CO-PO matrices of courses selected in 3.1.1 (four matrices to be mentioned; one per semester from 3rd to 6th semester) (05)

1	Slight	**2**	Moderate	**3**	Substantial

Semester: **Course Name: 38231-PRINTING PROCESSESS Year of study**: 2 year / 3 sem

38231-PRINTING PROCESSESS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
Know the Historical background and evolution.	2	3	2	1						
Study the Structure of Printing Industry	2		2	1	1					3
Understand the Principles of Printing Processes.	2	3		2		1	1	2		
Learn the Applications of Printing Processes.	2	1		1						3
Know the Classifications of Printing Machines used in different Prinitng Process	2			1						

	PSO1	PSO2	PSO3
Know the Historical background and evolution.	S		SS
Study the Structure of Printing Industry	S	M	M
Understand the Principles of Printing Processes.	S	M	SS
Learn the Applications of Printing Processes.	S		
Know the Classifications of Printing Machines used in different Prinitng Process	SS		M

PSO

Semester: Course Name: 38241 - OFFSET PRINTING TECHNOLOGY**Year of study**: 2 Year

38241 - OFFSET PRINTING TECHNOLOGY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Understanding Basic principles and Structure of offset printing process.	2	3	**1**		2				**1**	3
Prepare the automatic feeder and delivery setting for different substrates	2		**1**		2				**1**	
Choose the types of folders and remedies for mis-register problems.	2	**3**	**1**		2				**1**	3
Concepts of Infeed and Web Guiding Devices Web Offset Press	2	**3**	**1**		2				**1**	
Types of dryers, chill rollers, folders and Auxiliary Equipments in web offset presses	2	3	**1**		2				**1**	

PSO:

	PSO1	PSO2	PSO3
Understanding Basic principles and Structure of offset printing process.	S		M

Prepare the automatic feeder and delivery setting for different substrates	S	S	SS
Choose the types of folders and remedies for mis-register problems.	SS	M	M
Concepts of Infeed and Web Guiding Devices Web Offset Press	S		M
Types of dryers, chill rollers, folders and Auxiliary Equipments in web offset presses	S		SS

Semester: Course Name: 38254 - PACKAGING TECHNOLOGYYear of Study: 3 Year

38254 - PACKAGING TECHNOLOGY	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 1 0
Study about Basics of Packaging Process	2	**1**	3	**1**			**1**			3
Judge the materials used in packaging. (Board, Plastics and Metals)	2		**1**	**1**	1					
Learn about Packaging Machinery & Finishing	2	3		**1**						2
Know about Ancillary Packaging	2		2	**1**			**1**			3
Learn about Specialty Packages	2	3	**1**		2		**1**		2	**1**

PSO

	PSO1	PSO2	PSO3
Study about Basics of Packaging Process	S		M
Judge the materials used in packaging. (Board, Plastics and Metals)	S	S	SS
Learn about Packaging Machinery & Finishing	SS	M	M
Know about Ancillary Packaging	S		M
Learn about Specialty Packages	S		SS

Semester: Course Name: 38265 - MACHINERY MAINTENANCE PRACTICAL Year of Study: 3 year

38265 - MACHINERY MAINTENANCE PRACTICAL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Know about handling and application of tools and Supporting objects	2	**1**	2	**1**			**1**			3
Study about Motor, Power Transmission systems and Mechanical Components	2		**1**	**1**	**1**					
Demonstrate the Mechanical and Electrical Auxiliary Equipments	2	3		**1**						3
Perform the solid print test for identifying mechanical problems in the machine.	2	3	2	**1**			**1**			

PSO

	PSO1	PSO2	PSO3
Know about handling and application of tools and Supporting objects	S		SS
Study about Motor, Power Transmission systems and Mechanical Components	S	M	M
Demonstrate the Mechanical and Electrical Auxiliary Equipments	S	M	SS
Perform the solid print test for identifying mechanical problems in the machine.	S		

3.1.3. P

3.1.4. level Course-PO matrix of all courses INCLUDING first year courses (10)

1	Slight	2	Moderate	3	Substantial

Sem	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
I	Communication English - 1	10	0	3	2	0	0	0	0	1	3
	30012 - Engg. Mathematics - 1	8	8	6	5	0	0	0	0	0	0
	30013 - Engg. Physics - 1	10	5	6	8	1	0	0	0	0	0
	30014 - Engg. Chemistry - 1	10	4	4	6	0	0	0	0	0	0
	30015 - Engg. Graphics - 1	8	4	4	6	0	0	0	0	0	0

38231-PRINTING PROCESSES	Sem Course	30028 - Engg. Chemistry Practical - 2	30027 - Engg. Physics Practical - 2	30026 - Engg. Graphics - 2	30025 - Engg. Chemistry - 2	30024 - Engg. Physics - 2	30022 - Engg. Mathematics - 2	II 30021- Communication English - 2	30018 - Workshop Practical	30017 - Engg. Chemistry Practical - 1	30016 - Engg. Physics Practical - 1
10	PO 1	8	14	8	10	8	12	10	10	8	14
1	PO 2	6	10	4	6	6	8	0	7	6	10
2	PO 3	4	4	4	6	4	8	0	4	4	4
6	PO 4	4	6	6	6	3	8	2	4	4	6
1	PO 5	0	0	0	1	0	0	0	0	0	0
1	PO 6	0	0	0	1	2	0	1	0	0	0
1	PO 7	0	0	0	1	2	2	1	0	0	0
2	PO 8	0	0	0	0	0	0	0	0	0	0
0	PO 9	0	0	2	0	2	0	2	0	0	0
0	PO 10	0	0	0	0	0	1	1	0	0	0

Sem	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
IV	38241 - OFFSET PRINTING TECHNOLOGY	10	2	5	0	10	0	0	0	5	0
	RE FLEXOGRAPHY AND SCREEN	7	7	7	2	5	2	0	0	2	4
	38243 - PRINT FINISHING AND CONVERTING	10	5	1	9	10	0	2	0	0	0
	38244 - PRINTING MATERIALS	10	6	3	6	4	0	1	2	0	0
	PUBLISHING FOR PRINT PRODU	6	4	3	2	3	1	0	0	2	2
	38246 - OFFSET MACHINES PRACTICAL	10	5	0	6	2	0	0	0	0	1
III	38232 - VISUAL DESIGN & DTP	7	4	5	2	3	1	0	0	2	2
	38233 - IMAGE PROCESSING	7	7	7	2	5	2	0	0	2	4
	DESIGN STUDIO PRAC	7	2	5	0	3	1	0	0	1	2
	IMAGE PROCESSING PRAC	4	4	0	6	0	4	0	2	2	4
	PRINTING PRIMER PRAC	7	2	5	0	3	1	0	0	1	2
	30001 - COMPUTER APPLICATIONS PRACTICAL	11	4	0	5	7	2	0	3	4	4

		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
	38247 - PRINT FINISHING PRACTICAL	8	6	8	0	8	0	0	2	1	2

Sem	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
V	38251 - DIGITAL PREPRESS	5	1	7	2	5	1	0	0	1	2
	38252 - E-PUBLISHING	6	4	3	2	3	1	0	0	2	2
	38253 - ADVANCED PRINTING TECHNOLOGIES	8	4	5	2	4	1	0	0	2	2
	38254 - PACKAGING TECHNOLOGY	10	3	6	4	3	0	3	0	2	3
	DIGITAL PREPRESS PRACTICAL	6	2	5	0	4	0	0	0	0	0
	38256 - PACKAGING PRACTICAL	8	2	5	0	4	1	0	0	1	2
	EMPLOYABILITY SKILLS AND	10	4	7	2	5	0	1	0	0	0

Sem	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
VI	38261 - TOTAL QUALITY MANAGMENT	10	10	6	6	5	0	0	2	4	0
	38262 - PRINTING PRESS MANAGEMENT	10	9	5	5	3	1	0	0	6	2
	PRINTING MACHINERY MAINTENANCE	10	9	6	6	4	0	0	0	6	0
	PRINT QUALITY ASSURANCE PRACTIC	8	8	8	4	0	0	0	0	8	0
	MACHINERY MAINTENANCE PRACTIC	8	3	5	4	1	0	2	0	0	2
	INDUSTRIAL EXPOSURE AND REPOR	4	6	9	0	10	0	1	2	3	3
	38267 - PROJECT WORK	4	6	9	0	10	0	1	2	3	3

1.2. Attainment of Course Outcomes

1.2.1. Describe the assessment processes used to gather the data upon which   the

evaluation of Course Outcome is based

Assessment Process	Evaluation
Theory	
Continuous Assessment Tests + Model Exam	Two Internal Assessment Tests to be conducted each for 50 marks (One best will be taken, Marks Reduced to 5) One model exam to be conducted 75 marks duration 3 hours, coverning the entire syllabus and (Marks reduced to 5) Three assignment 20 marks each (Marsk Reducted to 05) Two seminar per subject 5 marks to be added with assignment marks Attendance 5 marks – Total 25
End Semester Examination	75
Laboratory	
Continuous Assessment Tests	8/10 Lab excercies 20 marks each (Reduced to 20) Attendacne 5 Marks – Total 25
End Semester Examination	Will be conducted as per DoTE schedule for 75 marks
Project Work	
Final Year Projects	Two Reviews for 10 marks each and Attendacne 5 Marks – Total 25 Board examination Viva Voce 25 marks Demonstration /Presentation 20 marks Written test marks Entrepreneurship 10 marks Environment Management 10 marks Disaster Management 10 marks – Total 75 Marks
Others	
Assignments	For Each subject three assignement are to be given each for 20 marks and average marks scored should be reduced for 5 marks
Seminars	Two seminar per subject 5 marks to be added with assignemtn marks
Course Feedback*	

* Refer Annexure III

1.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels

The set attainment value is fixed based on the performance of students in the examination of previous years. Once the set attainment level is reached, the set attainment value is increased for the successive academic years.

- Attainment Level 1 (slight): 60% of students scoring more than set attainment level in the final examination.

- Attainment Level 2 (moderate): 70% of students scoring more than set attainment level in the final examination.

- Attainment Level 3 (substantial): 80 % of students scoring more than set attainment level in the final examination.

**Attainment is measured in terms of actual percentage of students getting set percentage of marks

Semester	Course	DOTE			Internal			Total Attainment level
		Set target %	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
1	Communication English - 1	70	61	1	80	77.24	2	1.20
	30012 - Engg. Mathematics - 1	65	63.03	1	75	81.26	3	1.40
	30013 - Engg. Physics - 1	65	62.18	1	75	80.43	3	1.40
	30014 - Engg. Chemistry - 1	55	81.51	3	60	81.32	3	3.00
	30015 - Engg. Graphics - 1	60	88.24	3	70	84.15	3	3.00
	30016 - Engg. Physics Practical - 1	80	76.47	2	85	80.23	3	2.20
	30017 - Engg. Chemistry Practical - 1	80	91.59	3	90	81.24	3	3.00
	30018 - Workshop Practical	70	61	1	80	77.24	2	1.20

Semester	Course	DOTE			Internal			Total Attainment level
		Set target%	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
2	**30021- Communication English - 2**	70	80.67	3	80	73.24	2	2.80
	30022 - Engg. Mathematics – 2	60	67.22	1	70	80.24	3	1.40
	30023 - Applied. Mathematics	70	77.31	2	80	71.52	2	2.00
	30024 - Engg. Physics - 2							
	30025 - Engg. Chemistry -2	70	83.19	3	80	76.34	2	2.80
	30026 - Engg. Graphics - 2	80	73.10	2	90	82.10	3	2.20
	30027 - Engg. Physics Practical - 2	90	80.67	3	95	84.46	3	3.00
	30028 - Engg. Chemistry Practical - 2	55	89.07	3	60	83.21	3	3.00

Semester	Course	DOTE			Internal			Total Attainment level
		Set target %	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
3	**38231-PRINTING PROCESSESS**	56	80	3	80	77.37	2	2.80
	38232 - VISUAL DESIGN & DTP	60	70.02	2	85	86.8	3	2.20
	38233 - IMAGE PROCESSING	60	70	2	75	67.8	1	1.80
	38234 - DESIGN STUDIO PRACTICAL	70	71.73	2	85	82.48	3	2.20
	38235 - IMAGE PROCESSING PRACTICAL	60	66.67	1	80	72.99	2	1.20
	38236 - PRINTING PRIMER PRACTICAL	56	77.53	2	75	74.45	2	2.00
	30001 - COMPUTER APPLICATIONS PRACTICAL	60	84.78	3	80	84.7	3	3.00

Semester	Course	DOTE			Internal			Total Attainment level
		Set target %	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
4	**38241 - OFFSET PRINTING TECHNOLOGY**	60	84.78	3	70	100	3	3.00
	38242 - GRAVURE FLEXOGRAPHY AND SCREEN PRINTING	56	81.88	3	75	65.9	1	2.60
	38243 - PRINT FINISHING AND CONVERTING	60	61.59	1	80	63.76	1	1.00
	38244 - PRINTING MATERIALS	56	84.78	3	80	60.86	1	2.60
	38245 - DESKTOP PUBLISHING FOR PRINT PRODUCTION PRACTICAL	56	72.46	2	75	60.8	1	1.80
	38246 - OFFSET MACHINES PRACTICAL	55	75.36	2	75	74.6	2	2.00
	38247 - PRINT FINISHING PRACTICAL	80	78.26	2	85	88.4	3	2.20

Semester	Course	DOTE			Internal			Total Attainment level
		Set target %	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
5	38251 - DIGITAL PREPRESS	54	83.21	3	65	89.1	3	3.00
	38252 - E-PUBLISHING	50	80.29	3	55	85.47	3	3.00
	ADVANCED PRINTING TECHNOLOGI	55	75.91	2	65	71.67	2	2.00
	- PACKAGING TECHNOLOG	57	85.40	3	60	80	3	3.00
	38255 - DIGITAL PREPRESS PRACTICAL	56	82.48	3	65	81.67	3	3.00
	38256 - PACKAGING PRACTICAL	60	60.58	1	65	80.38	3	1.40
	30002 - LIFE AND EMPLOYABILITY SKILLS PRACTICAL	80	80.29	3	90	71.66	2	2.80

Semester	Course	DOTE			Internal			Total Attainment level
		Set target %	% crossing the target %	Attainment level	Set target %	% crossing the target %	Attainment level	
6	38261 - TOTAL QUALITY MANAGEMENT	60	84.78	3	70	100	3	3.00
	38262 - PRINTING PRESS MANAGEMENT	56	81.88	3	75	65.9	1	2.60
	38263 - PRINTING MACHINERY MAINTENANCE	60	61.59	1	80	63.76	1	1.00
	38264 - PRINT QUALITY ASSURANCE PRACTICAL	56	84.78	3	80	60.86	1	2.60
	38265 - MACHINERY MAINTENANCE PRACTICAL	56	72.46	2	75	60.8	1	1.80
	38266 - INDUSTRIAL EXPOSURE AND REPORT	55	75.36	2	75	74.6	2	2.00
	38267 - PROJECT WORK	80	78.26	2	85	88.4	3	2.20

1.3. Attainment of Course Outcomes

1.3.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Assessment Process	Evaluation
Theory	
Class tests (Unit Test)	Class tests are conducted now and then by the class incharge after completion of every unit during class hour for 25 marks.
Continuous Assessment Tests	Two Internal Assessment Tests are conducted each for 50 marks on completion of every two units (6th week and 12th week of the semester) One model exam conducted 75 marks duration 3 hours, coverning the entire syllabus
End Semester Examination	Will be conducted as per Directorat of Technical Education schedule
Laboratory	
Model Exam	Lab model exam will be conducted after completion of all the experiments for 75 marks for a duration of 3 Hrs
End Semester Examination	Will be conducted as per Directorate of Technical Education schedule
Project Work	
Final Year Projects	Students will be divided into groups, wherein each group will have a maximum of 6 students. Every group will be mentored by a faculty (Internal / External). Three reviews will be conducted and the students will be reviewed by a panel of Lecturers.
Others	
Assignments	Three Assignment topics per subject will be given to students
Tutorials	The entire class will be divided into three batches where each batch will have 20 to 23 students. A faculty will be allotted for each batch. Every week an hour will be conducted for tutorials wherein the faculty will make the students solve more problems.
Seminars	One hour per week will be allotted for the seminar session wherein students present topics of their interest.

1.3.2. Record the attainment of Course Outcomes of all courses with respect to

set attainment levels

The set attainment value is fixed based on the performance of students in the Board examination of previous years. Once the set attainment level is reached, the set attainment value is increased for the successive academic years.

- Attainment Level 1 (slight): 60% of students scoring more than set attainment level in the final examination.

- Attainment Level 2 (moderate): 70% of students scoring more than set attainment level in the final examination.

- Attainment Level 3 (substantial): 80 % of students scoring more than set attainment level in the final examination.

**Attainment is measured in terms of actual percentage of students getting set percentage of marks

1.4. Attainment of Program Outcomes and Program Specific Outcomes

1.4.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

Assessment Process	Evaluation	Frequency
Direct Assessment		
Theory		
Class tests	Class tests are conducted by the course incharge after completion of every unit during class hour for 25 marks.	Every 3 week of the semester twice for each subject

	Two continuous assessment tests will be conducted. The first two will be conducted for 50 marks for the duration of 2.00 Hrs covering 2 units. The last assessment will be a model exam for 75 marks for a duration of 3 Hrs.	Thrice in a semester
Continuous Assessment tests		
End Semester Examination	Will be conducted as per DoTE Board of Examinaiton schedule	Once in a semester
Laboratory		
Model Exam	Lab model exam will be conducted after completion of all the experiments for 75 marks for a duration of 3 Hrs	Once in a semester
End Semester Examination	Will be conducted as per DoTE Board of Examinaiton schedule	Once in a semester
Project Work		
Final Year Projects	Students will be divided into groups, wherein each group will have a maximum of 6 students. Every group will be mentored by a faculty. Three reviews will be conducted and the students will be reviewed by a panel of Lecturers.	Once during final year

Others		
Publications	The final year project groups with the guidance of their supervisor should publish their work	Minimum two Publication during final year
Assignments	Three Assignment topics per subject will be given to students	Maximum of three assignments per subject per semester
Seminars	One hour per week will be allotted for the seminar session, wherein students present topics of their interest for every course of the semester.	A minimum of one seminar per student per semester per course
Tutorials	The entire class will be divided into three batches where each batch will have 20 to 23 students. A faculty will be allotted for each batch. Every week an hour will be conducted for tutorials wherein the faculty will make the students solve more problems.	15 sessions for subjects with tutorial as per curriculum
Mock Interview	During 5th semester, the students will attend mock interviews conducted by faculty team from the college on different subjects for placement preparation. The mock interviews will be conducted after college hours.	1 mock interview during the 5th semester
	During 6th semester, the students will attend mock interviews conducted by department faculty team along with the alumni from the industry on different subjects for placement preparation. The mock interviews will be conducted after college hours.	1 mock interview during the 6th semester

Summer and winter industrial training	Students attend summer and winter industrial training camps which help acquire practical knowledge.	A minimum of one in-plant training per Year.
Indirect Assessment		
Survey		
Alumni survey*	Get the feedback from the Alumni for the improvement of infrastructure, library facilities, placement activities and industry-Institute interaction.	Twice in a year
Student Entry survey	Get the expectations from the students during the orientation programme to know their requirements for the their improvement	Once during the orientation programme
Student Exit survey*	Get the feedback from the students after their course completion for the betterment of the department	Once after course completion
Feedback		
Student Mid Semester Feedback	Get the feedback after a month from the Start of the semester to improve teaching-learning process	Once in a semester
Student End Semester Feedback	Get the feedback after syllabus completion to improve teaching-learning process	Once in a semester
Parent Feedback	Get the feedback from the parents during the orientation programme for the improvement of the student performance and conduct.	Once during the orientation programme (Parents Meet) and as and when needed
Industry feedback*	Get the feedback from the industry to know the gaps to be filled to improve our students skill and placement count.	After every campus drive, guest lecture, workshop and seminar

Others		
Sun Branding Soluiton best student award	Based on the academic, co-curricular and extracurricular achievements a student from final year will be chosen as best student. SBSL will award the student.	Once in a year
SIGA best project award	Base on the novelty and societal impact a project will be chosen as best project. SIGA will award the students involved in that project work.	Once in a year
Assessment process to demonstrate the degree of attainment of PO's and PSO's:-		
(Attainment through Board examination and internal assessment)*attainment of course outcome/3		

1.4.2. Provide results of evaluation of each PO & PSO (40)

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Communication English - 1	-	-	-	1.87	-	0.93	0.93	0.93	1.87	2.80	0.93	0.93
	30012 - Engg. Mathematics - 1	1.40	1.40	0.93	0.93	0.93	0.47	0.47	-	0.93	0.47	-	0.47
	30013 - Engg. Physics - 1	2.00	2.00	1.33	1.33	0.67	0.67	0.67	-	0.67	0.67	-	0.67
	30014 - Engg. Chemistry - 1	2.80	1.87	1.87	1.87	1.87	1.87	0.93	-	0.93	1.87	-	0.93
	30015 - Engg. Graphics - 1	2.80	2.80	1.87	1.87	1.87	0.93	0.93	0.93	0.93	2.80	-	0.93
	30016 - Engg. Physics Practical - 1	3.00	3.00	2.00	2.00	3.00	-	-	-	1.00	2.00	-	1.00
	30017 - Engg. Chemistry Practical - 1	3.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	-	1.00
	30018 - Workshop Practical	2.20	2.20	1.47	1.47	2.20	-	0.73	-	0.73	1.47	-	0.73
II	30021- Communication English - 2	-	-	-	1.87	-	0.93	0.93	0.93	1.87	2.80	0.93	0.93
	30022 - Engg. Mathematics – 2	1.40	0.93	0.93	0.47	0.93	0.47	-	0.47	0.47	0.47	-	0.47
	30023 - Applied. Mathematics	1.40	1.40	0.93	0.93	0.47	0.47	0.47	-	0.47	0.47	-	0.47

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	30024 - Engg. Physics - 2	1.20	0.80	0.80	0.80	0.80	0.80	0.40	-	0.40	0.80	0.80	0.40
	30025 - Engg. Chemistry -2	3.00	2.00	1.00	1.00	3.00	-	1.00	-	1.00	-	1.00	2.00
	30026 - Engg. Graphics - 2	3.00	2.00	2.00	2.00	1.00	1.00	-	-	2.00	-	2.00	2.00
	30027 - Engg. Physics Practical - 2	2.20	1.47	1.47	1.47	0.73	1.47	0.73	0.73	0.73	0.73	-	0.73
	30028 - Engg. Chemistry Practical - 2	3.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00
III	**38231- PRINTING PROCESSES S**	2.80	2.80	1.87	1.87	-	1.87	1.87	1.87	-	-	-	-
	38232 - VISUAL DESIGN & DTP	2.20	1.47	1.47	1.47	0.73	0.73	1.47	-	0.73	-	1.47	-
	38233 - IMAGE PROCESSIN G	1.80	1.80	1.20	1.20	1.20	0.60	0.60	-	0.60	-	1.20	0.60

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	38234 - DESIGN STUDIO PRACTICAL	-	0.73	-	-	-	1.47	2.20	-	0.73	-	-	-
	38235 - IMAGE PROCESSING PRACTICAL	1.20	0.80	0.80	0.40	-	0.80	0.80	-	0.40	-	-	0.40
	38236 - PRINTING PRIMER PRACTICAL	2.00	0.67	-	-	1.33	0.67	-	-	0.67	-	0.67	-
	30001 - COMPUTER APPLICATIONS PRACTICAL	3.00	3.00	3.00	2.00	1.00	-	-	-	2.00	2.00	2.00	-
IV	**38241 - OFFSET PRINTING TECHNOLOGY**	3.00	3.00	1.00	2.00	2.00	-	-	-	-	-	2.00	-
	38242 - GRAVURE FLEXOGRAPHY AND SCREEN PRINTING	2.60	1.73	1.73	1.73	-	1.73	1.73	-	-	-	1.73	0.87
	38243 - PRINT FINISHING AND CONVERTING	1.00	0.67	0.67	0.67	-	-	-	-	0.33	-	0.33	0.33

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	38244 - PRINTING MATERIALS	2.60	2.60	1.73	0.87	0.87	1.73	1.73	-	0.87	-	0.87	0.87
	38245 - DESKTOP PUBLISHING FOR PRINT PRODUCTION PRACTICAL	1.80	1.80	1.20	1.20	1.20	1.20	0.60	-	0.60	0.60	1.20	-
	38246 - OFFSET MACHINES PRACTICAL	2.00	2.00	1.33	1.33	2.00	0.67	1.33	-	0.67	-	1.33	0.67
	38247 - PRINT FINISHING PRACTICAL	2.20	2.20	1.47	1.47	2.20	-	-	-	1.47	0.73	-	0.73
V	**38251 - DIGITAL PREPRESS**	3.00	2.00	1.00	-	-	2.00	2.00		-	-	1.00	1.00
	38252 - E-PUBLISHING	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	1.00
	38253 - ADVANCED PRINTING TECHNOLOGIES	2.00	1.33	1.33	1.33	2.00	0.67	0.67	-	-	-	0.67	-
	PACKAGING TECHNO	3.00	3.00	2.00	2.00	1.00	2.00	1.00	-	2.00	-	2.00	1.00

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	38251 - DIGITAL PREPRESS	3.00	2.00	2.00	2.00	-	1.00	2.00	-	1.00	-	2.00	1.00
	38252 - E-PUBLISHING	0.93	1.40	1.40	0.93	0.93	0.93	0.93	-	-	-	-	0.47
	38253 - ADVANCED PRINTING TECHNOLOGIES	2.80	0.93	-	-	2.80	0.93	-	-	-	-	-	-
VI	38261 - TOTAL QUALITY MANAGEMENT	2.00	3.00	3.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00
	38262 - PRINTING PRESS MANAGEMENT	2.00	3.00	3.00	3.00	2.00	1.00	1.00	-	1.00	-	-	1.00
	38263 - PRINTING MACHINERY MAINTENANCE	0.93	-	-	-	-	0.47	0.47	-	0.47	-	-	0.47
	38264 - PRINT QUALITY ASSURANCE PRACTICAL	0.93	0.47	1.40	0.93	1.40	0.93	-	-	0.47	-	0.47	0.47

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	38264 - PRINT QUALITY ASSURANCE PRACTICAL	1.20	1.80	1.80	1.20	0.60	1.20	1.20	-	0.60	-	-	0.60
	38265 - MACHINERY MAINTENANCE PRACTICAL	1.47	-	-	-	2.20	0.73	1.47	-	-	-	0.73	-
	38266 - INDUSTRIAL EXPOSURE AND REPORT	-	-	-	-	-	-	2.00	3.00	2.00	2.00	1.00	-
	38267 - PROJECT WORK	2.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00

Semester	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	DIRECT ATTAINMENT LEVEL AVERAGE	2.68	2.35	2.09	1.87	2.00	1.46	1.50	1.43	1.45	1.79	1.56	1.07
	DIRECT ATTAINMENT LEVEL	2.38	2.38	2.38	2.41	2.42	2.29	2.31	2.48	2.48	2.59	2.52	2.37
	INDIRECT ATTAINMENT LEVEL	2.70	2.20	2.50	2.20	2.50	2.20	2.50	2.40	2.70	2.70	1.90	2.60
	TOTAL ATTAINMENT LEVEL	2.44	2.35	2.40	2.36	2.44	2.27	2.35	2.46	2.52	2.61	2.39	2.41

SEMESTER	COURSE	PSO1	PSO2	PSO3
I	Communication English - 1	-	-	-
	30012 - Engg. Mathematics - 1	0.47	0.47	-
	30013 - Engg. Physics - 1	0.67	-	-
	30014 - Engg. Chemistry - 1	0.93	-	-
	30015 - Engg. Graphics - 1	0.93	-	-
	30016 - Engg. Physics Practical - 1	1.00	-	-
	30017 - Engg. Chemistry Practical - 1	1.00	1.00	-
	30018 - Workshop Practical	0.73	-	-
II	30021-Communication English - 2	-	-	-
	30022 - Engg. Mathematics – 2	0.47	0.47	-
	30023 - Applied. Mathematics	0.47	-	-
	30024 - Engg. Physics - 2	0.40	-	-
	30025 - Engg. Chemistry -2	1.00	1.00	-
	30026 - Engg. Graphics - 2	1.00	-	-
	30027 - Engg. Physics Practical - 2	0.73	-	-
	30028 - Engg. Chemistry Practical - 2	1.00	-	-

SEMESTER	COURSE	PSO1	PSO2	PSO3
III	38231-PRINTING PROCESSESS	2.80	-	-
	38232 - VISUAL DESIGN & DTP	1.47	0.73	1.47
	38233 - IMAGE PROCESSING	1.80	-	0.60
	38234 - DESIGN STUDIO PRACTICAL	-	-	2.20
	38235 - IMAGE PROCESSING PRACTICAL	0.80	1.20	0.40
	38236 - PRINTING PRIMER PRACTICAL	2.00	0.67	-
	30001 - COMPUTER APPLICATIONS PRACTICAL	2.00	1.00	-
IV	38241 - OFFSET PRINTING TECHNOLOGY	2.00	-	-
	38242 - GRAVURE FLEXOGRAPHY AND SCREEN PRINTING	0.87	0.87	0.87
	38243 - PRINT FINISHING AND CONVERTING	-	-	1.00
	38244 - PRINTING MATERIALS	2.60	1.73	0.87
	38245 - DESKTOP PUBLISHING FOR PRINT PRODUCTION PRACTICAL	1.20	1.20	0.60
	38246 - OFFSET MACHINES PRACTICAL	2.00	0.67	-

SEMESTER	COURSE	PSO1	PSO2	PSO3
	38247 - PRINT FINISHING PRACTICAL	2.20	0.73	-
V	38251 - DIGITAL PRE PRESS	-	1.00	1.00
	38252 - E-PUBLISHING	2.00	-	-
	38253 - ADVANCED PRINTING TECHNOLOGIES	-	1.33	-
	38254 - PACKAGING TECHNOLOGY	3.00	3.00	3.00
	38255 - DIGITAL PRE PRESS PRACTICAL	1.00	3.00	1.00
	38256 - PACKAGING PRACTICAL	1.40	0.93	1.40
	30002 - LIFE AND EMPLOYABILITY SKILLS PRACTICAL	0.93	-	-
VI	**38261 - TOTAL QUALITY MANAGEMENT**	2.00	1.00	2.00
	38262 - PRINTING PRESS MANAGEMENT	3.00	3.00	3.00
	38263 - PRINTING MACHINERY MAINTENANCE	-	0.93	0.47
	38264 - PRINT QUALITY ASSURANCE PRACTICAL	-	0.93	0.47

SEMESTER	COURSE	PSO1	PSO2	PSO3
	38265 - MACHINERY MAINTENANCE PRACTICAL	0.60	-	-
	38266 - INDUSTRIAL EXPOSURE AND REPORT	0.73	-	-
	38267 - PROJECT WORK	3.00	3.00	3.00

SEMESTER	COURSE	PSO1	PSO2	PSO3
DIRECT PSO ATTAINMENT LEVEL AVERAGE		**1.37**	**1.48**	**1.26**
DIRECT ATTAINMENT LEVEL		**2.41**	**2.39**	**2.22**
INDIRECT ATTAINMENT LEVEL		**2.50**	**2.30**	**2.37**
TOTAL ATTAINMENT LEVEL		**2.43**	**2.38**	**2.25**

The Indirect attainment level is obtained from the alumini feedback. The feedback form was send or given to alumini students to get the indirect attainment level. The format is in Annexture III