LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

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ATTAINMENT OF PROGRAM OUTCOMES AND COURSE OUTCOMES

The institution aims to help the students to reach their potential through the provision of a supportive, vibrant and challenging learning environment. All the staff members are involved in the construction of this learning environment. All students are valued equally during their learning journey with the institute. Accordingly, the curriculum, teaching and learning and assessment at college are student-centric. The college has formulated academic committees that aim at achieving the quality of learning, teaching and assessment across the institute by providing academic leadership for the continued development of excellence in academic practice.

The institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning. The outcome of assessment/ evaluation sheets of each student is summarized and analyzed to identify their strong and weak aspects. The student mentors then counsel the students and give them advice on the methods of improvement. The process cycle of evaluation, analysis, mentoring, counseling and student performance is a continuous process from the start of student induction into the institution and placement of the student on completion of their course.

Assessment methods include direct and indirect methods. The process of course outcome assessment by the direct method is based on internal examinations, semester-end examinations. Each question in internal exams/semester end exams/assignment is tagged to the corresponding CO and the overall attainment of that CO is based on the average mark set as a target for final attainment.

Direct Assessment

•Internal Examinations are conducted twice a semester and each of them covers the evaluation of the relevant CO attainment.

•Semester End Examination is descriptive, and a metric for assessing whether the entire COs are attained.

Indirect Assessment

•It is done through the course end survey.

Rubrics are formulated for the assessment of Laboratory, Mini Project, Major projects, Seminar and Internship courses. The attainment of Course Outcomes of all courses with respect to set attainment levels are given under.

% of CO attainment	>=70%	>=60% &< 70%	>=50% &< 60%	<50%
CO attainment level	3	2	1	0

The attainment of each CO is computed by setting the class average mark as the target. The COs of each course is mapped to POs & PSOs with weights of 3 (Strong), 2 (Medium) and 1 (Weak).

Assessment of Course outcomes of Lab courses

The course outcomes of a practical course should satisfy at least one or more of the defined program outcomes. These describe what students are able to demonstrate in terms of knowledge, skills, and values upon completion of the said course. Percentage of students who score more than 80% marks in each measured criterion is taken for calculating CO attainment.

Attainment of Program Outcomes and Program Specific Outcomes

All the courses which contribute to the PO are identified and these courses are evaluated through the Course Outcomes using direct (Internal (20% weightage) and External exam (80% weightage) and indirect (Course end survey) assessments. The overall results from the assessments of the PO are compared with the expected attainment. The PO is considered satisfied on the attainment of the expected level.

For each course, the level of attainment of each CO is compared with the predefined targets, and if not attained, the course coordinator takes necessary steps for improvement. If the target criterion level is not reached, then faculty suggest for improvement to attain the same.

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DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

AY: 2020-2021
ODD Semester
CO Attainments

Sl.No.	Course	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO1	CO2	CO3	CO4	CO5	CO6		
IV Year I Semester										
1	CS701PC	Data Mining	2.1	1.8	1.9				1.9	NO
2	CS702PC	Principles of programming languages	2.4	1.9	1.9	2.1	2.2		2.1	YES
3	CS721PE	Python Programming	2.1	2.8	2.1	2.4			2.35	YES
4	CS732PE	Distributed System	1.9	2.1	1.8	1.7	1.9		1.88	NO
5	CS742PE	Cloud Computing	2.1	2.1	2.2	1.9	1.8	2.2	2.05	YES
6	CS703PC	Data Mining Lab	2.8	2.2					2.50	YES
7	CS751PC	Python Programming Lab	2.4	2.4	2.6	2.1	2.2	2.1	2.3	YES
8	CS705PC	Industry Oriented Mini project	2.2	2.1	2.2	2.2	2.4	1.9	2.16	YES
9	CS706PC	Seminar	2.1	2.2	2.4	2.2	2.1	2.4	2.23	YES

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HOD, CSE

		III Year I Semester								
1	CS501PC	Formal Languages & Automata Theory	2.1	1.8	1.9	2.1	2.2		2.02	YES
2	CS502PC	Software Engineering	2.1	1.9	1.9	2.1	2.2		2.04	YES
3	CS503PC	Computer Networks	2.1	1.8	2.1	2.1	2.1		2.02	YES
4	CS504PC	Web Technologies	1.9	2.1	2.1	2.2	1.9		2.04	YES
5	C CS512PE	Advanced Operating systems	2.1	2.1	2.2	1.9	1.8	2.2	2.05	YES
6	CS513PE	Data Analytics	1.8	2.2	1.5	1.8	1.7		1.8	NO
7	CS505PC	Software Engineering Lab	2.1	2.6	2.4	2.1	2.2		2.28	YES
8	CS506PC	Computer Networks &Web Technologies Lab	1.9	2.4	2.2	2.2	1.9	2.1	2.48	YES
9	EN508HS	Advanced Communication Skills Lab	2.1	2.2	1.9	2.2	2.1	2.4	2.15	YES
10	*MC510	Intellectual Property Rights	2.1	1.8	1.9	2.1	2.2	1.2	1.88	NO
		II Year I Semester								
1	MC112CE	Environmental Science	2.1	1.8	1.9	2.1	2.2	1.2	1.8	NO
2	MC113PY	Essence of Indian Traditional Knowledge	2.1	1.9	1.9	2.1	2.2	2.2	2.06	YES
3	HS204ME	Operations Research	2.1	1.8	2.1	2.1	2.1	1.9	1.9	NO
4	BS206BZ	Biology for Engineers	1.9	2.1	2.1	2.2	1.9	1.8	2.01	YES
5	ES214EC	Basic Electronics	2.1	2.1	2.2	1.9	1.8		2.02	YES
6	ES216EC	Digital Electronics	1.8	2.2	1.9	1.8	2.2	1.9	1.96	NO
7	PC221CS	Data Structures and Algorithms	2.1	1.9	1.9	2.1	2.2	1.9	2.3	YES
8	PC222CS	Discrete Mathematics	1.8	2.1	2.2	2.2	1.9	1.8	2.01	YES
10	PC223CS	Programming Languages	2.1	2.2	1.9	2.2	2.1	1.9	2.06	YES
11	ES251EC	Basic Electronics Lab	2.1	1.8	1.9	2.1	2.2		2.02	YES
12	PC252CS	Data Structures and Algorithms	2.1	2.4	2.2	2.1	2.2	2.2	2.2	YES

		Lab								
13	PC253CS	Advanced Computer Skills Lab	2.1	2.6	2.4	2.4	2.2	2.31	2.06	YES

PO/PSO Attainments
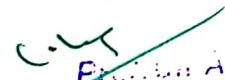
Sl. No.	Course	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
						IV Year I Semester										
1	CS701PC	Data Mining	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
2	CS702PC	Principles of Programming Languages	1.9	2.1	2.2								1.9	1.8	2.2	2.1
3	CS721PE	Python Programming	2.1	1.9	2.2		1							1.9	2.2	1.9
4	CS732PE	Distributed Systems								2.1	2.2	2.1	2.2		1.9	1.8
5	CS742PE	Cloud Computing	2.1	1.9	1.1		2.2							2.2	1.9	1.8
6	CS703PC	Data Mining Lab	2.1	2.2	2.2										1.9	1.8
7	CS751PC	Python Programming Lab	2.1			2.2	2.2			1.8				1.9	2.2	2.1
8	CS705PC	Industry Oriented Mini Project	2.2	2.2						1.9	2.2	1.9	2.2		2.1	1.9
9	CS706PC	Seminar	2.2	2.1		1.9		2.2		1.8	2.2	1.8	2.2		1.8	1.9

III Year I Semester

S.No	Code	Course													
1	MC112CE	Environmental Science	2.2	1.9	2.2	1.8	1.9					1.9	1.8	2.2	2.1
2	MC113PY	Essence of Indian Traditional Knowledge	1.9	2.1	2.2							1.9	1.8	2.2	2.1
3	HS204ME	Operations Research	2.1	1.9	2.2		1						1.9	2.2	1.9
4	BS206BZ	Biology for Engineers							2.1	2.2	2.1	2.2		1.9	1.8
5	ES214EC	Basic Electronics	2.1	1.9	1.1		2.2						2.2	1.9	1.8
6	ES216EC	Digital Electronics	2.1	2.2	2.2									1.9	1.8
7	PC221CS	Data Structures and Algorithms	2.1			2.2	2.2			1.8			1.9	2.2	2.1
8	PC222CS	Discrete Mathematics	2.2	2.2					1.9	2.2	1.9	2.2		2.1	1.9
9	PC223CS	Programming Languages	2.2	2.1		1.9		2.2	1.8	2.2	1.8	2.2		1.8	1.9
10	ES251EC	Basic Electronics Lab	2.2	1.9	2.2	1.8	1.9					1.9	1.8	2.2	2.1
11	PC252CS	Data Structures and Algorithms Lab	1.9	2.1	2.2							1.9	1.8	2.2	2.1
12	PC253CS	Advanced Computer Skills Lab	2.1	1.9	2.2		1						1.9	2.2	1.9

PO/PSO Attainments

Sl. No.	Course	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
								II Year I Semester								
1	MC112CE	Environmental Science	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
2	MC113PY	Essence of Indian Traditional Knowledge	1.9	2.1	2.2								1.9	1.8	2.2	2.1
3	HS204ME	Operations Research	2.1	1.9	2.2		1							1.9	2.2	1.9
4	BS206BZ	Biology for Engineers								2.1	2.2	2.1	2.2		1.9	1.8
5	ES214EC	Basic Electronics	2.1	1.9	1.1		2.2							2.2	1.9	1.8
6	ES216EC	Digital Electronics	2.1	2.2	2.2										1.9	1.8
7	PC221CS	Data Structures and Algorithms	2.1			2.2	2.2			1.8				1.9	2.2	2.1
8	PC222CS	Discrete Mathematics	2.2	2.2						1.9	2.2	1.9	2.2		2.1	1.9
9	PC223CS	Programming Languages	2.2	2.1		1.9		2.2		1.8	2.2	1.8	2.2		1.8	1.9
10	ES251EC	Basic Electronics Lab	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
11	PC252CS	Data Structures and Algorithms Lab	1.9	2.1	2.2								1.9	1.8	2.2	2.1
12	PC253CS	Advanced Computer Skills Lab	2.1	1.9	2.2		1							1.9	2.2	1.9
13	MC112CE	Environmental Science								2.1	2.2	2.1	2.2		1.9	1.8

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
A.Y: 2020-2021
EVEN Semester
CO-PO/PSO Attainments

Sl.No.	Course	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NOTargetLevel:2.0
			CO1	CO2	CO3	CO4	CO5	CO6		
IV Year II Semester										
1	EE8330E	Organizational Behavior	2.1	1.6	1.9	1.8			1.85	NO
2	CS853PE	Data Analytics	2.1	1.9	1.9	2.1	2.2	2.2	2.06	YES
3	CS863PE	Computer Forensics	2.1	2.6					2.35	YES
4	CS801PC	Major Project	2.3	2.1	2.1	2.4	2.5	2.4	2.3	YES
III Year II Semester										
1	CS601PC	Machine Learning	2.1	1.8	1.9	2.1	2.2	1.2	1.88	NO
2	CS602PC	Compiler Design	2.1	1.9	1.9	2.1			2.0	YES
3	CS603PC	Design and Analysis of Algorithms	2.1	1.8	2.1	2.1	2.1		2.04	YES
4	CS615PE	Software Testing Methodologies	2.3	2.1	2.1	2.2	1.9	2.4	2.16	YES
5	EC600OE	Fundamentals of Internet of Things	2.1	2.1	2.2	1.9	1.8	2.2	2.05	YES

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HOD-CSE

S.No	Code	Subject Name								
6	CS604PC	Machine Learning Lab	1.8	2.2	1.9	1.8			1.92	NO
7	CS605PC	Compiler Design Lab	2.1	2.4	1.9	2.1	2.3		2.16	YES
8	CS625PE	Software Testing Methodologies Lab	2.8	2.1	2.2	2.2	2.4		2.34	YES
9	MC609	Environmental Science	2.1	2.2	1.9	2.2	2.1	1.9	2.06	YES
		II Year II Semester								
1	MC111PO	Indian Constitution	2.1	1.8	1.9	2.1	2.2	1.2	1.8	NO
2	HS201EG	Effective Technical Communication English	2.1	1.9	1.9	2.1	2.2	2.2	2.06	YES
3	HS202CM	Finance and Accounting	2.1	1.8	2.1	2.1	2.1		2.04	YES
4	BS207MT	Mathematics –III(Probability &Statistics)	1.9	2.1	2.1	2.2	1.9	1.8	2.0	YES
5	ES215EC	Signals and Systems	1.5	1.8	2.2	1.9	1.8		1.84	NO
6	PC231CS	OOP using JAVA	2.2	2.2	1.9	2.1	2.2		2.12	YES
7	PC232CS	Computer Organization	2.1	1.9	1.9	2.1	2.2	1.9	2.01	YES
8	PC233CS	Database Management Systems	2.4	2.1	2.6	2.8	1.9		2.36	YES
9	PC261CS	Computer Organization Lab	2.4	2.2	2.2	2.2	2.1	2.7	2.3	YES
10	PC262CS	OOP using JAVA Lab	2.1	2.8	2.4	2.1	2.2	2.2	2.3	YES
11	PC263CS	Database Management Systems Lab	2.5	2.4	2.3	2.6			2.45	YES

PO/PSO Attainments

Sl.No.	Course	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
IV Year IISemester
1	EE8330E	Organizational Behavior	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
2	CS853PE	Data Analytics	1.9	2.1	2.2								1.9	1.8	2.2	2.1
3	CS863PE	Computer Forensics	2.1	1.9	2.2		1							1.9	2.2	1.9
4	CS801PC	Major Project								2.1	2.2	2.1	2.2		1.9	1.8
III Year II Semester
1	CS601PC	Machine Learning	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
2	CS602PC	Compiler Design	1.9	2.1	2.2								1.9	1.8	2.2	2.1
3	CS603PC	Design and Analysis of Algorithms	2.1	1.9	2.2		1							1.9	2.2	1.9
4	CS615PE	Software Testing Methodologies								2.1	2.2	2.1	2.2		1.9	1.8
5	EC600OE	Fundamentals of Internet of Things	2.1	1.9	1.1		2.2							2.2	1.9	1.8
6	CS604PC	Machine Learning Lab	2.1	2.2	2.2										1.9	1.8
7	CS605PC	Compiler Design Lab	2.1			2.2	2.2			1.8				1.9	2.2	2.1
8	CS625PE	Software Testing Methodologies Lab	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1

S.No	Code	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
9	MC609	Environmental Science	1.9	2.1	2.2								1.9	1.8	2.2	2.1
							II Year II semester									
1	MC111PO	Indian Constitution	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
2	HS201EG	Effective Technical Communication English	1.9	2.1	2.2								1.9	1.8	2.2	2.1
3	HS202CM	Finance and Accounting	2.1	1.9	2.2		1							1.9	2.2	1.9
4	BS207MT	Mathematics – III(Probability &Statistics)							2.1	2.2	2.1	2.2			1.9	1.8
5	ES215EC	Signals and Systems	2.1	1.9	1.1		2.2							2.2	1.9	1.8
6	PC231CS	OOP using JAVA	2.1	2.2	2.2										1.9	1.8
7	PC232CS	Computer Organization	2.1			2.2	2.2		1.8					1.9	2.2	2.1	
8	PC233CS	Database Management Systems	2.2	2.2					1.9	2.2	1.9	2.2			2.1	1.9
9	PC261CS	Computer Organization Lab	2.2	2.1		1.9		2.2	1.8	2.2	1.8	2.2			1.8	1.9
10	PC262CS	OOP using JAVA Lab	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1
11	PC263CS	Database Management Systems Lab	2.2	1.9	2.2	1.8	1.9						1.9	1.8	2.2	2.1