Mechanical Engineering Software used by Course coordinator members:

Department of Mechanical Engineering offers modelling and simulation based software's to students and course coordinator members to practise in the field of design and analysis. The department is providing 24 hours of accessible time to students with available CAD CAM laboratories. In addition to this Value Added Programs are also conducted with the help of these software.

Table 5.10.1 represents use of Mechanical software by course coordinators.

Table 5.10.1: Mechanical Engineering Software's used by Faculty members:

Sr. No.	Name of Software	Number of Users	Name of Faculty	Aim/ Objective of use of software	Name of activity	Number of students benefited	Outcome of activity	Mapping with PO and PSO
1	GATE Tutor	Unlimited	Prof. A. S. Aradhye	To get practise of questions which are similar to GATE examinations	Weekly one practise session is planned, where students have been given access to this software.	LY Students	GATE Exam Preparation	PO1, PO12, PSO1
2	MATLAB	10	Prof. U. S. Gholap	To conduct ROBOTICS & AI practical's for Final year classes	1. To calculate forward and inverse kinematics of robot arm	83	Students able to calculate forward and inverse kinematics	PO1, PO2, PO5, PO12, PSO1, PSO2
3	ANSYS 14.5	25	Prof. P. P. Kulkarni	To Carryout finite element analysis of different mechanical engineering components	Finite element analysis of stepped bar by using ANSYS Software	107	Students able to create structural analysis and thermal analysis of bimetallic bar	PO1, PO5, PSO1, PSO2
4	ANSYS 14.5	25	Prof. U. S. Gholap	To conduct CAD CAM CAE practical's for Third year classes	1. To create structural analysis of Bimetallic bar 2. To create thermal analysis Bimetallic bar.	107	Students able to create structural analysis and thermal analysis of bimetallic bar	PO1, PO2, PO5, PO10, PO12, PSO1, PSO2

5	**CATIA V6 R20**	20	Prof. P. P. Kulkarni	To represent solid, surface and wireframe models virtually in software	a). To create 2D part drawings b) To create solid modelling & assembly drawings c) Value Added course .	107	Students able to create part drawing and solid modelling	PO1, PO5, PO10, PO12, PSO1, PSO2
6	**CATIA V6 R20**	20	Prof. U. S. Gholap	To conduct CAD CAM CAE practical's for Third year classes	1. To create 2D part drawings 2. To create solid modelling & assembly drawings.	107	Students able to create part drawing and solid modelling	PO1, PO5, PO10, PO12, PSO1, PSO2
7	**AUTOCAD 2011**	2	Prof. A.D. Jadhav, Prof. H.S. Deshpande and Dr. B.S. Gandhare	To conduct auto CAD practical's for second year classes	1. To create 2D drawings 2. To create 3D assembly drawings of screw jack, drilling jig etc.	300	Students able to create 2D and 3D auto CAD drawings	PO1, PO5, PO12, PSO1
8	**Auto Desk Fusion 360**	100	Prof. U. S. Gholap	To conduct FDP on Fusion 360 for faculty members	1. To create 2D drawings 2. To create 3D assembly drawings	32 Faculty members	Students able to create 2D and 3D auto CAD drawings	PO1, PO5, PO12, PSO1

9	DEWE - Soft	1	Dr. A. S. Aradhye	To analyse vibration details	Projects related to vibration.	13	Students have analysed vibrational behaviour of any component/ system. Related damping/ absorbing or isolating capacities can be calculated.	PO1, PO5, PO12, PSO1
10	Turbo - C	5	Prof. A. D. Jadhav	To get acquainted with the knowledge of C language.	One week Students Training Program on C & CPP from Placement point of view.	85	Students able to clear the coding round of placement process. Able to use this programming knowledge in their mini and major projects.	PO1, PO5, PSO1, PSO2
11	PTC Creo - 6.0	25	Prof. H. S. Deshpande	To represent solid, surface and wireframe models virtually in software	a). To create 2D part drawings b) To create solid modelling & assembly drawings c) Value Added course .	23	Students able to create part drawing and solid modelling	PO1, PO5, PSO1, PSO2