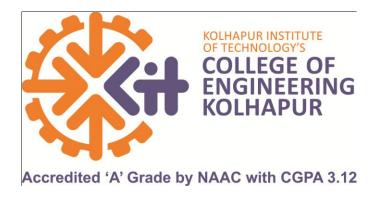
# Kolhapur Institute of Technology's College of Engineering, Kolhapur



# **Curriculum (Structure)**

for

**Production Engineering** (Under Graduate Programme)

# Kolhapur Institute of Technology's College of Engineering, Kolhapur Teaching and Evaluation scheme for



## Second Year B. Tech. Program in Production Engineering Semester-III

		II	•/\V\00	1-		Ev	aluation S	cheme					
Course Code	Course Name	H	r/Wee	e <b>K</b>	Credits	G		Marks					
Code		L	T	P		Component -	Max	Min for	Passing				
						ISE-I	10						
UPRD0301	Engineering	3	1		4	MSE	30	20	40				
UPKD0301	Mathematics-III	3	1	-	4	ISE-II	10		40				
						ESE	50	20	1				
						ISE-I	10						
LIDDDO202	Foundry	2			2	MSE	30	20	40				
UPRD0302	Technology	3	-	-	3	ISE-II	10		40				
						ESE	50	20					
						ISE-I	10						
LIDDDO202	Machine Tools &	2	1		4	MSE	30	20					
UPRD0303	Processes	3	1	-	4	ISE-II	10		40				
						ESE	50	20	1				
						ISE-I	10						
LIDDDOGGA	Thermal Engineering	2		-	3	MSE	30	20	40				
UPRD0304		3	-			ISE-II	10	20	40				
						ESE	50		1				
	Industrial Electronics & Electrical Drives					ISE-I	10						
LIDDDOGG		Electronics &	2			2	MSE	30	20	40			
UPRD0305										3	ISE-II	10	
						ESE	50	20	1				
UPRD0361	<sup>#</sup> Professional Skill Development	2	-	-	-	Evaluation Scheme	100	4	0				
UPRD0331	Foundry			2	1	ISE	25	1	0				
UPKD0551	Technology -Lab	•	-	2	1	ESE (O.E.)	25	1	0				
UPRD0332	Thermal Engineering Lab	-	-	2	1	ISE	25	1	0				
	Computer Aided					ISE	25	1	0				
UPRD0333	Machine Drawing (CAMD)-Lab	-	-	2	1	ESE (P.O.E.)	25	1					
UPRD0334	Workshop Practice -II	•	-	2	1	ISE	25	1	0				
UPRD0341	Mini Project	_	_	2	1	ISE	25	1	0				
01 KD05+1	Willia Froject	,			1	ESE (P.O.E.)	25	1	0				
	Total	17	2	10	22	,	Total Credi	it: 22					
Total Cont	act Hours/Week:	2	29Hrs.	22			rs.						

# Kolhapur Institute of Technology' College of Engineering, Kolhapur



Teaching and Evaluation scheme for

### Second Year B. Tech. Program in Production Engineering Semester-IV

		1	Hr/Wee	alz.		Ev	valuation	Scheme					
Course	Course Name		Hr/ vv ec	ek	Credits	Compon		Marks					
Code	Course Nume	L	Т	P	Orcures	ent	Max		n for sing				
						ISE-I	10						
1100000101	D0401 Industrial Hydraulic & Pneumatics					MSE	30	20					
UPRD0401		3	-	-	3	ISE-II	10	1	40				
								ESE	50	20			
						ISE-I	10						
1100000100						MSE	30	20					
UPRD0402	Strength of Materials	3	-	-	3	ISE-II	10	1	40				
						ESE	50	20	1				
						ISE-I	10						
	Metal Joining	_		-	_	MSE	30	20					
UPRD0403	Technology	3	-		3	ISE-II	10	1	40				
						ESE	50	20	1				
	Metallurgy									ISE-I	10		
		_		-		MSE	30	20					
UPRD0404		3	1		4	ISE-II	10		40				
						ESE	50	20	1				
	Theory of Machines	Theory of Machines	Theory of Machines					ISE-I	10				
									MSE	30	20		
UPRD0405				3	1	-	4	ISE-II	10	1	40		
						ESE	50	20	1				
UPRD0461	# Environmental Studies	2	-	-	-	ESE	100	۷	10				
	Industrial Hadrandia C					ISE	25	1	.0				
UPRD0431	Industrial Hydraulic & Pneumatics –Lab	1	-	2	1	ESE (P.O.E.)	25	1	.0				
UPRD0432	Metal Joining Technology- Lab	1	-	2	1	ISE	25	1	.0				
UPRD0433	Meta-Lab	-	-	2	1	ISE	25	1	.0				
						ISE	25	1	.0				
UPRD0434	Theory of Machines-Lab	-	-	2	1	ESE (P.O.E.)	25	1	.0				
	Workshop Prostice III					ISE	25	1	.0				
UPRD0435	Workshop Practice – III- Lab	1	-	2	1	ESE (P.O.E.)	25	1	.0				
	Total	17	2	10	22		Total Cre	dit: 22					
Total C	Contact Hours/Week:		29		22	Total Co	ntact Hrs.	/Week: 29	Hrs.				

# **Kolhapur Institute of Technology's College of Engineering, Kolhapur**Teaching and Evaluation scheme for



## Third Year B. Tech. Program in Production Engineering Semester-V

~		]	Hr/Weel	K		Evaluation Scheme			
Course Code	Course Name	т	Т	P	Credits	Commonant		Marks	
Coue		L	I	P		Component	Max	Min for	Passing
						ISE-I	10		
LIDD DOFO1	Metal Cutting	2			2	MSE	30	20	
UPRD0501	Technology	3	-	-	3	ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
UPRD0502	Mechanical Measurement &	4	_	_	4	MSE	30	20	
01100002	Metrology	·				ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
UPRD0503	Metal Forming & Plastic	3			3	MSE	30	20	
UFKD0303	Technology	3	-	-	3	ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
LIDDDOGUU	Professional Elective-I	•	1	-		MSE	30	20	
UPRD05##		2			3	ISE-II	10		40
						ESE	50	20	
	Machine Design					ISE-I	10		
UPRD0504		3	1	_	4	MSE	30	20	40
01KD0304		3	1	-	4	ISE-II	10		
						ESE	50	20	
UPRD0561	<sup>#</sup> Rapid Prototyping	2	-	-	-	-	100	4	0
UPRD0531	Mechanical Measurement &	_	_	2	1	ISE	25	1	0
01 KD0551	Metrology-Lab	•	-	2	1	ESE (O.E.)	25	1	0
UPRD0532	Metal Forming & Plastic Technology –Lab		-	2	1	ISE	50	2	0
UPRD0533	Metal Cutting Technology	-	-	2	1	ISE	50	2	0
	Computer Aided					ISE	25	1	0
UPRD0534	Solid Modeling- Lab	-	-	2	1	ESE (P.O.E.)	25	1	0
LIDD DOS25	CAMICLI			2	1	ISE	25	1	0
UPRD0535	CAM Lab-I	-	-		1	ESE	25	1	0
	Total	17	2	10			Total Credi	t: 22	
Total Cont	act Hours/Week:		29		22	Total Contact Hrs/Week: 29 Hrs.			s.

	Professional Elective I							
Course Code	Course Name							
UPRD0521	Numerical Methods							
UPRD0522	Ergonomics & WS							
UPRD0523	Total Quality Management							
UPRD0524	Entrepreneurship Development -I							
UPRD0525	Composite Materials and Technology							
UPRD0526	Control Engineering							
UPRD0527	Computer Graphics							
UPRD0528	Human Behavior at Work							

#### Kolhapur Institute of Technology's College of Engineering, Kolhapu

Teaching and Evaluation scheme for



#### Third Year B. Tech. Program in Production Engineering Semester-VI

			Hr/We	ek		Evalu	ation Sch	eme			
Course	Course Name				Credits		N	larks			
Code	Course rume	L	T	P	Creates	Component	Max		for sing		
						ISE-I	10				
LIDD DOCO1	Mechatronic	2			2	MSE	30	20	40		
UPRD0601	Systems	3	-	-	3	ISE-II	10		40		
						ESE	50	20			
						ISE-I	10				
LIDDDO COO	Industrial Mgt &	2	1		4	MSE	30	20	40		
UPRD0602	Psychology	3	1	-	4	ISE-II	10	1	40		
						ESE	50	20			
						ISE-I	10				
	Design of Jigs,	_				MSE	30	20			
UPRD0603	Fixtures and Dies	3	1	-	4	ISE-II	10		40		
						ESE	50	20			
						ISE-I	10				
	Professional Elective-II					MSE	30	20			
UPRD06##					3	-	-	3	ISE-II	10	1
						ESE	50	20			
						ISE-I	10				
						MSE	30	20			
UOEL06##	Open Elective – I	3	-	-	3	ISE-II	10	1	40		
						ESE	50	20	1		
UPRD0661	# IOT	2	-	-	-	ESE	100	4	0		
	Machatrania					ISE	25	1	0		
UPRD0631	Mechatronic Systems-Lab	-	-	2	1	ESE (P.O.E.)	25	1	0		
UPRD0632	Design of Jigs, Fixtures and	-	_	2	1	ISE	25	1	0		
01 KD0032	Dies-Lab	_			1	ESE (O.E.)	25	1	0		
						ISE	25	1	0		
UPRD0633	CAM- Lab II	-	-	2	1	ESE (P.O.E.)	25	1	0		
UPRD0634	Industrial Mgt & Psychology - Lab	-	-	2	1	ISE	25	1	0		
UPRD0641	Seminar*	-	-	2	1	ISE	25	1	0		
	Total	17	2	10		Tot	al Credit:	22			
Total Cont	act Hours/Week:		29		22	Total Conta	ct Hrs/We	ek: <b>29</b> H	Irs.		
	Comings a group of				1						

<sup>\*</sup>Note: For Seminar a group of nine students shall be considered for workload purpose.

Professional Elective II							
Course Code	Course Name						
UPRD0621	Plant layout & Material Handling						
UPRD0622	Industrial Engineering						
UPRD0623	Energy Engineering						
UPRD0624	Entrepreneurship Development -II						
UPRD0625	Reliability Engineering						
UPRD0626	Lean Manufacturing						
UPRD0627	Marketing Management						

	Open Elective I	Offered by Department
Course Code	Course Name	Offered by Department
UOEL0646	Safety Engineering	Production Engineering
UOEL0647	Quality Management	Production Engineering
UOEL0648	Entrepreneurship Development	Production Engineering

### Kolhapur Institute of Technology's College of Engineering, Kolhapur

Teaching and Evaluation scheme for



## Final Year B. Tech. Program in Production Engineering Semester-VII

		H	r/Week			Ev	Evaluation Scheme			
Course	Course Name				Credits			Marks		
Code	Course I value	L	T	P	Creates	Component	Max		for sing	
						ISE-I	10			
LIDDDOZO1	Finite Element	2			2	MSE	30	20	40	
UPRD0701	Analysis	3	-	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
LIDDDOZOZ	Production &	2	,		4	MSE	30	20	40	
UPRD0702	Operations Management	3	1	-	4	ISE-II	10		40	
	S					ESE	50	20		
						ISE-I	10			
VIDDE 0502	Process			-		MSE	30	20	40	
UPRD0703	Engineering and Technology	3	-		3	ISE-II	10			
						ESE	50	20		
UPRD0761	# Quality Mgt	2	-	-	-	ESE	100	4	0	
	Professional Elective-III					ISE-I	10		40	
AIDD DOGUU						MSE	30	20		
UPRD07##				3	-	-	3	ISE-II	10	
						ESE	50	20		
						ISE-I	10			
LIOEL OF			On an Election II	2				MSE	30	20
UOEL07##	Open Elective-II	3		-	3	ISE-II	10	1	40	
						ESE	50	20		
	Finite Element			_		ISE	25	1	0	
UPRD0731	Analysis-Lab	-	-	2	1	ESE (P.O.E.)	25	1	0	
	Process					ISE	25		0	
UPRD0732	Engineering and Technology-Lab	-	-	2	1	ESE (O.E.)	25	1	0	
UPRD07##	Professional Elective-III-Lab	•	-	2	1	ISE	50	2	0	
UPRD0751	Major Project	_	_	2	1	ISE	25	1	0	
	Phase-I*					ESE (O.E.)	25	1	0	
r	Гotal	17	1	8	20	,	Total Credit	: 20		
Total Conta	ct Hours/Week:		26		20	Total Contact Hrs/Week: 26 Hrs.		rs.		

Note: \* For Project Work a group of eight students shall be considered for workload purpose

	Open Elective II	Offered by Department
Course Code	Course Name	Offered by Department
UOEL0746	Supply Chain management	Production Engineering
UOEL0747	Project Management	Production Engineering

	Professional Elective III							
<b>Course Code</b>	Course Name							
UPRD0721	Refrigeration & Air Conditioning							
UPRD0722	Automotive Technology ( Automotive Electronics)							
UPRD0723	Computer Integrated Manufacturing System							
UPRD0724	Industrial Automation & Robotics							
UPRD0725	Industrial Product Development							
UPRD0726	Machine Tool Design							

Professional Elective III- Lab								
Course Code	Course Name							
UPRD0733	Refrigeration & Air Conditioning Lab							
UPRD0734	Automotive Technology (Automotive Electronics) Lab							
UPRD0735	Computer Integrated Manufacturing System Lab							
UPRD0736	Industrial Automation & Robotics Lab							
UPRD0737	Industrial Product Development Lab							
UPRD0738	Machine Tool Design Lab							

#### Kolhapur Institute of Technology's College of Engineering, Kolhapur

Teaching and Evaluation scheme for



#### Final Year B. Tech. Program in Production Engineering Semester-VIII

		Н	r/Weel	k		Evaluation Scheme					
Course	Course Name				Credi	Componen	Marks				
Code		L	Т	P	ts	t	Max		in for ssing		
				-	3	ISE-I	10	20			
UPRD0801	Costing & Cost	3				MSE	30	20			
UPKDU801	Control	3	-			ISE-II	10	20	40		
						ESE	50				
	Operation Research							ISE-I	10	20	
UPRD0802		3		-	3	MSE	30	20	40		
UPKD0802		3	-		3	ISE-II	10	20	40		
						ESE	50	20			
	Major Project					ISE-I	75	30			
UPRD0851	Phase II and	-	-	12	6	ISE-II	75	30			
	Internship					ESE (O.E.)	150		60		
	Total		6 - 12			7	Total Cred	it· 12			
Total Cont	Total Contact Hours/Week:		18				tact Hrs/V		B Hrs.		

Audit Courses		
Course Code	Course Name	
UPRD0321	Profession Skill Development	
UPRD0421	Environmental Studies	
UPRD0521	Rapid Manufacturing	
UPRD0621	Internet of Things	
UPRD0761	<b>Quality Management</b>	

**Abbreviations:** L: Lectures, T: Tutorial, P: Practical, **ISE**: In Semester Exam, **MSE**: Mid Semester Exam, **ESE**: End Semester Examination, **P.O.E.**: Practical and Oral Exam. **O.E:** Oral Examination # Audit Course.

#### Kolhapur Institute of Technology's College of Engineering, Kolhapur Proposed Program Credit Distribution



Curriculum Component	Credits	As per AICTE Norms
Humanities and Management	11	12
Basic Science	25	25
Engineering Science	26	24
Professional Courses	54	48
Professional Electives	22	18
Open Electives	16	18
Project/Seminar/Training/Internship	16	15
Total	170	160

