POKHARA UNIVERSITY
Bachelor of Mechanical Engineering, 2024
Curricular Structure

Year : I **Semester : I**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MTH 110	Calculus-I	3	3	2	0	5
2	PHY 110	Applied Physics	3	3	1	2	6
3	ELE 112	Basic Electrical and Electronics Engineering	3	3	2	2	7
4	CMP 110	Fundamentals of Computer Programming	3	3	1	2	6
5	MEC 114	Engineering Drawing-I	2	2	0	4	6
6	MEC 116	Engineering Mechanics-I	3	3	1	0	4
		Sub-total	**17**	**17**	**7**	**10**	**34**

Year : I **Semester : II**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MTH 150	Algebra and Geometry	3	3	2	0	5
2	CHM 110	Applied Chemistry	2	2	1	2	5
3	MEC 122	Engineering Drawing-II	2	2	0	4	6
4	MEC 124	Engineering Mechanics-II	3	3	1	0	4
5	MEC 126	Engineering Thermodynamics-I	3	3	1	1	5
6	MEC 128	Workshop Technology	3	3	0	3	6
		Sub-total	**16**	**16**	**5**	**10**	**31**

Year : II **Semester : III**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MTH 210	Calculus-II	3	3	2	0	5
2	ELE 232	Electrical Machines	3	3	1	1	5
3	MEC 232	Instrumentation and Measurement	3	3	1	1	5
4	MEC 234	Strength of Materials	3	3	1	1	5
5	MEC 236	Engineering Thermodynamics-II	3	3	1	1	5
6	MEC 238	Manufacturing and Production Processes	3	3	1	3	7
		Sub-total	**18**	**18**	**7**	**7**	**32**

Year : II **Semester : IV**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MTH 252	Numerical Methods	2	2	1	2	5
2	ELE 246	Control Systems	3	3	1	1	5
3	MEC 240	Material Science	3	3	1	1	5
4	MEC 242	Mechanics of Solids	3	3	1	1	5
5	MEC 244	Fluid Mechanics	3	3	1	1	5
6	MEC 246	Theory of Machines and Mechanism	3	3	2	0	5
		Sub-total	**17**	**17**	**7**	**6**	**30**

Year : III **Semester : V**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MTH 216	Probability and Statistics	2	2	2	0	4
2	MEC 350	Fluid Machines	3	3	1	1	5
3	MEC 352	Dynamics of Machinery	3	3	1	1	5
4	MEC 354	Design of Machine Elements	3	3	1	2	6
5	MEC 356	Heat and Mass Transfer	3	3	1	1	5
6	IND 350	Industrial Engineering and Management	3	3	1	0	4
		Sub-total	**17**	**17**	**7**	**5**	**29**

Year: III **Semester : VI**

Teaching Schedule							
S. N.	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	ENG 360	Technical Communication Skill	2	2	0	2	4
2	MEC 360	Finite Element Method	3	3	1	1	5
3	MEC 362	Mechanical System Design	3	3	1	1	5
4	MEC 366	Robotics and Automation	3	3	1	1	5
5	IND 360	Fundamentals of Engineering Economics	3	3	1	0	4
6		Elective-I	3	3	1	1	5
7	MEC 368	Minor Project	1	0	0	3	3
		Sub-total	**18**	**17**	**5**	**9**	**31**

Year : IV **Semester : VII**

Teaching Schedule							
S.N	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1	MEC 470	Hydraulic and Pneumatic Systems	3	3	1	1	5
2	IND 470	Project Management and Professional Practice	3	3	1	0	4
3	MEC 472	Energy and Environment	3	3	1	0	4
4	MEC 476	Automotive Technology	3	3	1	1	5
5		Elective-II	3	3	1	1	5
6	MEC 474	Major Project-I	1	0	0	3	3
		Sub-total	**16**	**15**	**5**	**6**	**26**

Year: IV **Semester : VIII**

Teaching Schedule							
S.N	**Course Code**	**Course Title**	**Credits**	**L**	**T**	**P**	**Total**
1		Elective-III	3	3	1	1	5
2	MEC 480	Major Project-II	2	0	0	6	6
3	INT 482	Internship	6	0	0	12	12
		Sub-total	**11**	**3**	**1**	**19**	**23**
		Total credits : Grand Total	**130**				

Course Code: Each course is assigned a unique code that identifies it within the curriculum. This code indicates the discipline, the year and semester the course is typically offered, and its sequence within the program. The prefix letters denote the discipline, such as MEC - Mechanical Engineering, ELE - Electrical and Electronics Engineering, ENG-English, MTH - Mathematics, PHY - Physics, CHM - Chemistry, CMP- Computer Engineering, IND - Industrial Engineering and INT-Internship. Besides in teaching schedule the abbreviation such as L, T, P stands for Lecture, Tutorial, and Practical respectively.

Internship: The internship has duration of 12 weeks and must be completed in industrial or mechanical engineering-related workplaces or professional engagements. To qualify for the internship, students must have passed at least 70 credits.

Elective III: Elective III will be conducted on a modular basis.

The tutorial and practical components of the course should accommodate a maximum of 24 students per group, with classes divided into two groups for a total of 48 students.