LEARNING AND INFORMATION RESOURCE CENTRE

MECH Sem V Books - Updated on July 2022

Subject	Title	Author	Publications	No. of Existing Books in the Library
Mechanical Measurements and Controls MEC501	Engineering. Metrology,	I.C. GUPTA	Dhanpat Rai Publications	1 (Reference Section)
	Engineering. Metrology,	R. K. Jain	Khanna Publisher	8
	Measurement Systems: Applications and Design	EO Doebelin	5th Edition, McGraw Hill	7
	Doebelin's Measurement Systems - 7th ed (not mentioned in the syllabus)	EO Doebelin	7th edition, McGraw Hill	5
	Mechanical Engineering Measurements	A. K. Sawhney	Dhanpat Rai & Sons, New Delhi	6
	Instrumentation & Mechanical Measurements	A. K. Tayal		1
	Control System Engineering	Nagrath I.J. and Gopal M	Wiley EasternLtd	42
	Modem Control engineering	K. Ogata	Prentice Hall	19
	Control systems	Dhanesh Manik	Cengage Learning	3
	Engineering Metrology and Measurements	N V Raghavendra and L Krishnamurthy	OxfordUniversity Press.	NIL

	Instrumentation and Control System	W. Bolton	Elsevier	1 (Reference Section)
	Experimental Methods for Engineers	J P Holman	McGraw Hills Int. Edition	1 (Reference Section)
	Engineering Experimentation	EO Doebelin	McGraw Hills Int. Edition	NIL
	Mechanical Measurements	S P Venkateshan	John Wiley & Sons	NIL
Thermal Engineering MEC502	Fundamentals of Heat and Mass Transfer	F.P. Incropera and D P deWitt	Wiley India 3rd Edition	3
	Introduction to thermodynamics and Heat transfer	YunusACengel	2ndEdition, McGraw Hill.	NIL
	Thermodynamics: an engineering approach	YunusACengel	Mcgraw Hill	4
	Fundamentals of Heat and Mass Transfer	M. Thirumaleshwar	Pearson Education India, 2009	NIL
	Introduction to Heat Transfer	Som S. K	PHI Publication.	NIL
	Heat Transfer	P S Ghoshdastidar	2nd Edition, Oxford University Press	1 (Reference Section)
	Heat and Mass Transfer	R Rudramoorthy and L Malaysamy	2nd Edition, PEARSON	1 (Reference Section)
	Heat Transfer	J P Holman	Mcgraw Hill	2
	Heat Transfer	S P Sukhatme	University Press	5
	Heat and Mass Transfer	PK Nag	TMH	3
	Internal Combustion Engines	Willard W.Pulkrabek	Pearson Education	4

	Internal Combustion Engines	Shyam Agrawal	New Age International	NIL
	Internal Combustion Engine	Mathur and Sharma		5
	Internal Combustion Engines	Mohanty	Standard Book House	NIL
	Internal Combustion Engine	Gills and Smith		NIL
	Internal Combustion Engines Fundamentals	John B. Heywood	TMH	5
	Internal Combustion Engines	Gupta H N	2nd ed, PHI	NIL
	Internal Combustion Engine	V Ganesan	TMH	6
	Introduction to Internal Combustion Engines	Richard Stone	Palgrave Publication, 4th Edition	1
	Internal Combustion Engine	S.L. Beohar		NIL
	Internal Combustion Engine	P.M Heldt		NIL
	Internal Combustion Engine	E.F. Oberi		NIL
	Internal Combustion Engine	Domkundwar		2
	Theory of Machines	Thomas Bevan	CSB Publishers & Distributors	3

Dynamics of Machinery MEC503	Theory of Machines	Jagdishlal Metropolitan	Book New Delhi, Company, Daryaganj, Delhi	0
	Theory of Machines	S.S.Rattan	Tata McGraw Hill , New Delhi	8
	Theory of Machines	P.L.Ballaney	Khanna publication, NewDelhi	4
	Theory of Machines and Mechanisms	John J Uicker, Gordon R Pennock and Joseph E Shigley	Oxford University Press	2
	Theory of Vibration with Applications	W. Thomson	2nd edition, Pearson Education	NIL
	Mechanical Vibrations	S.S.Rao	fourth edition, Pearson Education	3
	Mechanical Vibraitons	G.K.Grover		5
	Fundamentals of Mechanical Vibration	S.Graham Kelly	Tata McGraw Hll	5
	Principles of Vibration	Benson H Tongue	2nd Edition, Oxford University Press	NIL
	Vibration Analysis	P. Srineevasan	TMH	NIL
	Mechanical Vibrations-Schaum's outline series	William W.Seto	McGraw Hill	NIL
	Theory and Practice of Mechanical Vibrations	J S Rao and K Gupta	New Age International	1 (Reference Section)

	Elements of Vibration Analysis	Leonard Meirovitch	McGrav- Hill, New York	1 (Reference Section)
Finite Element Analysis MEC504	Textbook of Finite Element Analysis	Seshu P,	Prentice Hall of India	4
	Finite Element Method	J N Reddy	TMH	2
	Introduction to Finite Elements in Engineering,	Chandrupatla and Belegundu	Pearson Education	NIL
	Finite Element Methods	R Dhanraj and K Prabhakaran Nair	Oxford University Press	2
	A first course in Finite Element Method	Logan D L	Thomson Asia PvtLtd	2
	Concepts and Applications of Finite Element Analysis	Cook R D, Malkus D S, Plesha ME	John- Wiley Sons	2
	The Finite Element Method in Engineering	S. S. Rao	Butter Worth Heinemann	NIL
	Fundamental Finite Element Analysis and Application with Mathematica and MATLAB Computations	M. Asghar Bhatti	Wiley India Pvt. Ltd	2
Optimization Techniques MEDLO5011	Engineering Optimization - Theory and Practice	S.S. Rao,	John Wiley and Sons Inc	8
	Engineering Optimization - A Modern Approach	Ranjan Ganguli,	Universities Press	NIL
	Introduction to Optimization	Pablo Pedregal,	Springer	NIL

	Quantitative Techniques Vol. 1 and 2	L.C. Jhamb,	Everest Pub. House	NIL
	Optimization, Theory with Application	Pierre D.A.,	John Wiley & sons	NIL
	Decision Making in the Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making	R V Rao,	Springer Publication).	5 (PG Section)
	Neural Computation and Self-Organizing Maps	Ritter, H., Martinetz, T., &Schulten, K., Addison	Wesley Publishing Company	NIL
	Design and analysis of experiments	Douglas C.Montgomery,"	John Wiley & Sons Inc	2
	Manufacturing Optimization through Intelligent Techniques	Saravanan R,"	Taylor & Francis (CRC Press)-2006.	NIL
Design of Experiments MEDLO5012	Statistics for Experimenters,	Box, GEP, Hunter, WG, and Hunter, JS,	1978, Wiley	NIL
	Empirical Model-Building and Response Surfaces	Box, GEP and Draper, NR	1987, Wiley	NIL
	Experimental Designs	Cochran, WG and Cox, GM	1957, Wiley	NIL
	The Design of Experiments,	Fisher, RA,	8th Ed., 1966, Hafner	NIL

	Design and Analysis of Experiments (Vol I),	Hinkelmann, K and Kempthorne, O,	1994, Wiley.	NIL
	Optimal Design of Experiments	Pukelsheim, F,	1993, Wiley	NIL
	Statistical Principles in Experimental Design	Winer, BJ	2nd Ed 1962, McGraw-Hill	NIL
	Engineering Methods for Robust Product Design: Using Taguchi Methods in Technology and Product Development	Fowlkes WY, Creveling CM	1995, Addison-Wesley Publishing Company	NIL
	Design and Analysis of Experiments	D.C. Montgomery	5th edition, John Wiley & Sons, New York, 2001	2
	Total Quality Management	Besterfield D.H., Carol BesterfieldM ,MaryBesterfileld Sacre, Besterfield G.H.,Urdhwareshe H, Urdhwareshe R,	4th Ed, 2015, Pearson	5
Computational Methods MEDLO5013	Computational Methods in Engineering	S. P. Venkateshan& Prasanna Swaminathan	Ane Books Pvt. Ltd., 1st Edition, (2014) ISBN: 978-0-12-416702-5	NIL
	Numerical Methods for Engineers	Steven C. Chapra& Raymond P.Canale,	Mc-Graw Hill Education, 8TH Edition, (2020), ISBN: 1260571386	NIL

	Numerical Methods for Engineers and Scientists	Joe D Hoffman,	Second Edition, Marcel Dekker (2001) ISBN: 0-8247-0443-6.	NIL
	Numerical Methods for Scientific and Engineering Computation	M.K. Jain, S.R. Iyengar and R.K. Jain	7th Edition, New Age International Publishers, 2019	1 (Reference Section)
	Introductory Methods of Numerical Analysis	S.S. Sastry,	PHI, Fifth Edition, 2012	2 (Reference Section)
	Numerical Methods – Fundamentals and Applications	Rajesh Kumar Gupta,	Cambridge University Press, First Edition, 2019	NIL
	Numerical Methods for Engineers	Gupta and Santosh K.,	4th Edition, New Age International Publishers, 2019, ISBN: 9789387788794	NIL
	Computational Methods for Fluid Dynamics	FerzigerJ.and M. Peric,	3rd Edition, Springer, (2001) ISBN: 9783540420743.	NIL
	An Introduction to Computational Fluid Dynamics: The Finite Volume Method"	Versteeg H., and W. Malalasekra,"	2nd Edition, PHI(2007) ISBN: 9780131274983	NIL
Finite Element Analysis MEL503	Programming the Finite Element Method	I M Smith,D V Griffiths and Margetts	WILEY Publications	NIL

	The Finite Element Method: Theory, Implementation, and Applications	Larson, Mats G., Bengzon, Fredrik	Springer	NIL
	Introduction to Finite Element Analysis and Design	N. H. Kim, B. V. Sankar, and A. V. Kumar	Wiley publication	NIL
	Finite Element analysis using ANSYS	PaletiSrinivas,Krishna Chaitanya, Rajesh Kumar Detti	PHI Publication	NIL
	Finite Element Analysis Theory and Application With ANSYS	Saeed Moaveni	Pearson Publication	NIL
	Introduction to Finite Element Analysis Using MATLAB and Abaqus	Amar Khennane	CRC Press publication	NIL
Business Communication & Ethics CSL504	Humanities for the engineering curriculum: With selected chapters from Olsen/Huckin: Technical writing and professional communication	Arms, V. M.	second edition. Boston, MA: McGraw-Hill. (2005)	NIL
	Business communication today. Upper Saddle River	Bovée, C. L., &Thill, J. V. (2021).	Upper Saddle River NJ: Pearson	NIL
	Verbal communication: Soft skills for a digital workplace	Butterfield, J. (2017).	Boston, MA: Cengage Learning.	NIL

	Personal development for life and work	Masters, L. A., Wallace, H. R., & Harwood, L. (2011).	Mason: South-Western Cengage Learning	16
	Introducing Personal development for life and work (not mentioned in syllabus)	Masters, L. A., Wallace, H. R., & Harwood, L. (2011).		13
	Organizational behaviour	Robbins, S. P., Judge, T. A., & Campbell, T. T. (2017).	Harlow, England: Pearson.	5 (older editions available)
	Technical Communication, Principles and Practice	Meenakshi Raman, Sangeeta Sharma (2004)	Oxford University Press	7
	Tests of Aptitude for Placement Readiness	Archana Ram (2018) Place Mentor,	Oxford University Press	NIL
	Communication Skills a workbook	Sanjay Kumar &PushpLata (2018).	New Delhi: Oxford University Press.	NIL
	Communication Skills (not mentioned in syllabus)	Sanjay Kumar &PushpLata (2011).		11