

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC									
DEPARTMENT OF MECHANICAL ENGINEERING									
FACULTY NAME- AVAYA KUMAR BALIARSINGH			LESSONPLAN CUM PROGRESS REPORT						
SUBJECT: METROLOGY AND QUALITY CONTROL				SEMESTER:4 th			BRANCH: AUTOMOBILE ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	BOOK NAME./CHAPT . NO./PAGE	WEB REFERENCE IF ANY	TEACHING LEARNING METHOD	PLAN	ACTION	REVIEW BY HOD
							DATE	DATE	
1	CO1	1	CHAPTER-1 -METROLOGY CONCEPTS AND STANDARDS: Definition of Metrology.	R. K. Jain pageno - 1&M..Mahajan page no-1	https://www.youtube.com/watch?v=M5LntTDiKBQ&pp=ygVFQ0hBUFRFUi0xLU1FVFJPTe9HWSBDT05DRVBUUyBBTkQgU1RBtkRBukRTOiBEZWZpbml0aW9uIG9mIE1dHJvbG9neS4g	1-Introduction 10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	05.01.2026		
2	CO1	2	Metrology common terminology used	R. K. Jain pageno - 4&M..Mahajan page no-	https://www.youtube.com/watch?v=jpHzjYyKO4&pp=ygUhTWW0cm9sb2d5IGNvbW1vbjB0ZXJtaW5vbG9neSB1c2Vk	1-Previous class topic Review-10 min 2-Lecturer-50 min	07.01.2026		
3	CO1	2	Magnification, Errors,	R. K. Jain pageno - 45&M..Mahajan page no-	https://www.youtube.com/watch?v=jpHzjYyKO4&pp=ygUhTWW0cm9sb2d5IGNvbW1vbjB0ZXJtaW5vbG9neSB1c2Vk	1-Previous class topic Review-10 min 2-Lecturer-50 min	09.01..2026		
4	CO1	2	Sources of errors,	R. K. Jain 491&M..Mahajan page no-13	https://www.youtube.com/watch?v=jpHzjYyKO4&pp=ygUhTWW0cm9sb2d5IGNvbW1vbjB0ZXJtaW5vbG9neSB1c2Vk	1-Previous class topic Review-10 min 2-Lecturer-50 min	12...01.2026		
5	CO1	2	Line standard	R. K. Jain pageno -226	https://www.youtube.com/watch?v=QJ6RjLdgQdE&pp=ygUNTGluzSBzdGFuZGFyZA%3D%3D	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	13..01.2026		

6	CO1	3	Wavelength standard	R. K. Jain pageno -229	https://www.youtube.com/watch?v=Su0ICzJFTNk	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	16..01.2026		
7	CO2	2	CHAPTER-2-LIMITS, FITS & GAUGES : Definitions -Tolerance, Allowance	R. K. Jain pageno -261&M..Mahajan page no-228	https://www.youtube.com/watch?v=Su0ICzJFTNk	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	16.01.2026		
8	CO2	2	Types of fits, Hole basic system & shaft	R. K. Jain pageno -274&M..Mahajan page no-233	https://www.youtube.com/watch?v=miKd8H0dZO8&pp=ygUoVHlwZXMGb2YgZml0cywgSG9sZSBiYXNpYyBzeXN0ZW0gJiBzaGFmdNICQINCgGHKiGM7w%3D%3D	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	17.01.2026		
9	CO2	2	Types of fits, Hole basic system & shaft	R. K. Jain pageno -274&M..Mahajan page no-241	https://www.youtube.com/watch?v=miKd8H0dZO8&pp=ygUoVHlwZXMGb2YgZml0cywgSG9sZSBiYXNpYyBzeXN0ZW0gJiBzaGFmdNICQINCgGHKiGM7w%3D%3D	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	19..01.2026		
10	CO2	3	Basic system of fits	R. K. Jain pageno -289 &M..Mahajan page no-235		1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	20..01.2026		
11	CO2	2	Types of gauges - Plug gauges,	R. K. Jain pageno -310 &M..Mahajan page no-252,253		1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	22..01.2026		

12	CO2	2	snap gauges, Ring gauges and relative	M..Mahajan page no- 257,258	https://www.youtube.com/watch?v=Su0ICzJFTNk	1-Previous class topic Review-10 min 2-Lecturer-50 min	24..01.2026		
13	CO2	3	Taylor's Principle of gauge design.	R. K. Jain pageno - 318&M..Mahajan page no- 290	https://www.youtube.com/watch?v=6ZfAfjJTvvA&pp=ygUUVGF5bG9y4oCZcyBQcmluY2lwbGUgb2YgZ2F1Z2UgZGVzaWduLg%3D%3D	1-Previous class topic Review-10 min 2-Lecturer-50 min	27..01.2026		
14	CO2	4	Problems of Tolerance calculations Gauge design	R. K. Jain pageno -340 &M..Mahajan page no-271	https://www.youtube.com/watch?v=B9gWBnn-AsM&pp=ygUvUHJvYmxlbXJgb2YgVG9sZXRhbnNlIGNhbGN1bGF0aW9ucyBHYXVnZSBkZXNpZ24%3D	1-Previous class topic Review-10 min 2-Lecturer-50 min	28.01.2026		
15	CO2	4	Problems of Tolerance calculations Gauge design	R. K. Jain pageno -343 &M..Mahajan page no- 273,275,278	https://www.youtube.com/watch?v=B9gWBnn-AsM&pp=ygUvUHJvYmxlbXJgb2YgVG9sZXRhbnNlIGNhbGN1bGF0aW9ucyBHYXVnZSBkZXNpZ24%3D	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	30..01.2026		

16	CO3	2	CHAPTER-3 ANGULAR MEASUREMENTS: Concept of Angular measurement,	R. K. Jain pageno -517 &M..Mahajan page no-144	https://www.youtube.com/watch?v=WqgypIO42QE&pp=ygU_Q0hBUFRFUiozIEFOR1VMQVigTUVBU1VSRU1FTIRTOiBDb25jZXB0IG9mIEFuZ3VsYXlgbWVhc3VyZW1lbnQs	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	31..01.2026		
17	CO2	3	Construction & working of bevel protractor	M..Mahajan page no-146		1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	02.02.2026		
18	CO3	3	sine bar angle gauges	M..Mahajan page no-150		1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	03.02.2026		

19	CO3	3	clinometers,	R. K. Jain pageno - &M..Mahajan page no-157	https://www.youtube.com/watch?v=r3iOLKMUAN8	1-Previous class topic Review-10 min 2-Lecturer-50 min	05.02.2026		
20	CO3	3	Autocollimator,	R. K. Jain pageno - &M..Mahajan page no-159		1-Previous class topic Review-10 min 2-Lecturer-50 min	07..02..2026		
21	CO3	3	angle dekkor	R. K. Jain pageno - &M..Mahajan page no-160	https://www.youtube.com/watch?v=k9zQJEaKtfk&pp=ygUvQ0hBUFRFUi00IENPTVBBUKFUT1JT0iBQcml	1-Previous class topic Review-10 min 2-Lecturer-50 min	09..02.2026		
22	CO4	3	CHAPTER-4 COMPARATORS: Principle of comparators	R. K. Jain pageno - &M..Mahajan page no117-	https://www.youtube.com/watch?v=k9zQJEaKtfk&pp=ygUvQ0hBUFRFUi00IENPTVBBUKFUT1JT0iBQcmluY2lwbGUgb2	1-Previous class topic Review-10 min 2-Lecturer-50 min	10.02.2026		
23	CO4	3	operation of various comparators,	M..Mahajan page no-119	https://www.youtube.com/watch?v=Ew7KmAMcyxA&list=PLWv6RLxuaVQzBTb4QvAxne9EkYPKaA8EF	1-Previous class topic Review-10 min 2-Lecturer-50 min	13.02...2026		
24	CO4	3	operation of various comparators,	M..Mahajan page no120,121,122	https://www.youtube.com/watch?v=Ew7KmAMcyxA&list=PLWv6RLxuaVQzBTb4QvAxne9EkYPKaA8EF	1-Previous class topic Review-10 min 2-Lecturer-50 min	14.02.2026		
25	CO4	2	dial Indicators as mechanical comparator	R. K. Jain pageno - &M..Mahajan page no-120	https://www.youtube.com/watch?v=Ew7KmAMcyxA&pp=ygUoZGFpbCBJbmRpY2F0b3JzIGFzIG1lY2h0bmljYWwgY29tcGFyYXRvcg%3D%3D	1-Previous class topic Review-10 min 2-Lecturer-50 min	16..02..2026		

40	CO5	3	Measures of central tendency- mean, mode,	R. K. Jain pageno -899	https://www.youtube.com/watch?v=pkKfhlvv65w&pp=ygUtbWVhc3VyZXMgb2YgZGlzcGVyc2lvbi1yYW5nZSwgbWVhbiBkZXZpYXRpb25z	1-Previous class topic Review-10 min 2-Lecturer-50 min	13..03..2026		
41	CO5	3	median and variability and application,	R. K. Jain pageno -992	https://www.youtube.com/watch?v=pkKfhlvv65w&pp=ygUtbWVhc3VyZXMgb2YgZGlzcGVyc2lvbi1yYW5nZSwgbWVhbiBkZXZpYXRpb25z	1-Previous class topic Review-10 min 2-Lecturer-50 min	16..03..2026		
42	CO5	3	measures of dispersion-range, mean deviations	R. K. Jain pageno -994	https://www.youtube.com/watch?v=pkKfhlvv65w&pp=ygUtbWVhc3VyZXMgb2YgZGlzcGVyc2lvbi1yYW5nZSwgbWVhbiBkZXZpYXRpb25z	1-Previous class topic Review-10 min 2- PPT/Smart board-20 min 3-Lecturer-30 min	17.-03-2024		
43	CO5	3	deviations, Areas	R. K. Jain pageno -999	https://www.youtube.com/watch?v=aP3Gk9KvFoQ	1-Previous class topic Review-10 min 2-Lecturer-50 min	18..03.2026		
44	CO5	3	under standard deviation	R. K. Jain pageno -889	https://www.youtube.com/watch?v=aP3Gk9KvFoQ	1-Previous class topic Review-10 min 2-Lecturer-50 min	23.03..2026		
45	CO5	3	areas under normal distribution curve	R. K. Jain pageno -898	https://www.youtube.com/watch?v=aP3Gk9KvFoQ	1-Previous class topic Review-10 min 2-Lecturer-50 min	24..03..2026		

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