



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH,
Hyderabad). Accredited 2nd time by NAAC with 'A' Grade,
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100, www.mrec.ac.in

SYLLABUS

NON DESTRUCTIVE TECHNIQUES

DAY WISE SCHEDULE	TIMINGS	SYLLABUS COVERAGE
14/3/22	9:30-4:00pm	Introduction to NDT, Scope and advantages of NDT, Classification of NDT Techniques, Visual Inspection, Eddy current testing, Endoscopic Techniques.
15/3/22	9:30-4:00pm	Tests for Liquid Penetrating testing, Magnetic Particle testing.
16/3/22	9:30-4:00pm	Ultrasonic Pulse velocity tests, Radiographic tests, principles, sources for tests, exposure factors, Radiograph Interpretation, advantages and precautions.
17/3/22	9:30-4:00pm	Case studies for all tests, Live tests using USPVP, Liquid penetrating tests
18/3/22	9:30-4:00pm	Leak tests, Visual Inspection training course, Difference between Mechanical testing Vs NDT


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VAC – NON DESTRUCTIVE TECHNIQUES

COURSE COMPLETED STUDENTS LIST

S.NO.	ROLL NO.	STUDENT NAME	COURSE COMPLETED
1	21J41D2002	BRUNDA UNGARALA	YES
2	21J41D2003	CHALLA DATTA KARTHIK	YES
3	21J41D2004	CHANDUR NIKHITHA	YES
4	21J41D2005	DEVOLLA HEMANTH	YES
5	21J41D2006	G BHAVANI	YES
6	21J41D2008	GOPI REDDY ABHISHEK	YES
7	21J41D2009	KANDADI HEMANTH REDDY	YES
8	21J41D2010	KANNEGANTI LAKSHMI BHAVANI	YES
9	21J41D2013	MIRUDODDI SAI PRAKASH	YES
10	21J41D2014	MOHAMMED JAWADUDDIN	YES
11	21J41D2015	MORSU NIRANJAN	YES
12	21J41D2016	ODELA RAKESH	YES
13	21J41D2018	PORANLA VENUGOPAL	YES
14	21J41D2019	POTTA DIVYA	NO
15	21J41D2020	RALLABANDI SWETHA	YES
16	21J41D2021	RATHOD RASINKUMAR	YES
17	21J41D2025	SREEKAR SRIRAMOJU	YES
18	21J41D2026	TATUKOLU SHIVA NAGARAJU	YES
19	21J41D2027	TELLA SREELATHA	YES
20	21J41D2028	TUMMALA SAI BHARAT	YES
21	21J41D2030	YASA SAI SURAJ KUMAR	YES
22	20J41D2001	A SRIKANTH	YES
23	20J41D2002	AZMEERA HARIKRISHNA	YES
24	20J41D2004	CH NAVEEN	YES



S.NO.	ROLL NO.	STUDENT NAME	COURSE COMPLETED
25	20J41D2005	CHANDUPATLA RAJAMAHENDAR REDDY	YES
26	20J41D2006	CHAUN HEERA SINGH	NO
27	20J41D2007	CHERUPALLY SAI KUMAR	YES
28	20J41D2008	CHETLAPALLI ASRITHA	NO
29	20J41D2010	GUDEPU PREETHI	YES
30	20J41D2011	KADARI ABHISHEK	YES
31	20J41D2013	KARNE SAI KUMAR	YES
32	20J41D2015	KUJALA PRANITH KUMAR	YES
33	20J41D2016	KUKKALA MOUNIKA	YES
34	20J41D2018	MOHAMMED BILAL BADR	YES
35	20J41D2020	MUNJAM SUVARNA	YES
36	20J41D2021	RAJESH U	YES
37	20J41D2024	SUROJU SAI TEJA	YES
38	20J41D2026	TOTA PRAVALIKA	YES
39	20J41D2027	UPPALA MANITEJA	YES
40	20J41D2030	VUYYURU HARISH	YES
41	18J41A0101	AJMEERA PAVANKUMAR	NO
42	18J41A0102	ALANTHWAR SHRUTHI	YES
43	18J41A0103	AMGOTHU KRISHNAVENI	YES
44	18J41A0105	APPIREDDYGARI AJAY KUMAR REDDY	YES
45	18J41A0106	BAYAGALA VIVEK VARDHAN	YES
46	18J41A0107	BHUKYA SHILPA	YES
47	18J41A0108	BOBBALA SRINIVAS REDDY	YES
48	18J41A0109	BUDEM GANESH	YES
49	18J41A0110	BURRI CHANDU YADAV	YES
50	18J41A0111	CHILAKALA BHAVYASINDHU	YES
51	18J41A0112	CHIPPALA SIVA VENKATA RAJA SEKHAR	YES
52	18J41A0113	DARA DORASWAMY	YES
53	18J41A0114	DASARI SHANTHIVARDHAN	YES
54	18J41A0116	G VIJAYA	YES
55	18J41A0117	G VIKAS	YES



S.NO.	ROLL NO.	STUDENT NAME	COURSE COMPLETED
56	18J41A0118	GANDHAM SAI SREENU	YES
57	18J41A0119	GOUTI VENKATESH	YES
58	18J41A0120	HARALE KISHAN RAO	YES
59	18J41A0121	JADI SAIKEERTHI	YES
60	18J41A0122	JAKKANI CHAITHANYA	NO
61	18J41A0123	JALADI YASWANTH	NO
62	18J41A0124	JELLA MAHESHCHANDU	YES
63	18J41A0125	JOHN SUSHANTH RAJ GODISHALA	YES
64	18J41A0130	KESHI REDDY SAI VINAY REDDY	YES
65	18J41A0133	LAKKAKULA ABHISHEK	YES
66	18J41A0134	LINGALA RAMU	YES
67	18J41A0135	M AASHRITHA	YES
68	18J41A0136	MAKTHALA PRUDHVI RAJ GOUD	YES
69	18J41A0145	P VINAYKANTH REDDY	YES
70	18J41A0146	PALLIKONDA RAJESH	YES
71	18J41A0148	PECHETTI KONDA	YES
72	18J41A0155	SURAVARAPU HARIKA	YES
73	18J41A0157	TANIPARTHY SANJAY	YES
74	18J41A0158	THALLAPALLY SAIVISHAL	YES
75	18J41A0159	TUMMA VAMSHI	YES
76	18J41A0160	VASANTHA HEMANTH SAI	YES
77	18J41A0174	CHANDA KEERTHANA	YES
78	18J41A0175	CHILUKURI PRANAHITHA	YES
79	18J41A0176	CHINTAPALLI MADHU	YES
80	18J41A0177	CHITANNOJU RAKESH	YES
81	18J41A0181	GARIKAPATI MOUNIKA	YES
82	18J41A0182	GOLI SHILPA	YES
83	18J41A0183	GOWDA LAKSHMI SUREKHA	YES
84	18J41A0184	GUMPENA RAJEEV VARMA	NO
85	18J41A0187	K SAIRAM REDDY	YES
86	18J41A0188	KANDELA SAGAR	YES



S.NO.	ROLL NO.	STUDENT NAME	COURSE COMPLETED
87	18J41A0189	KANDULA SHIVAPRASAD	NO
88	18J41A0195	KOTA NITHIN REDDY	YES
89	18J41A0197	KUCCHUKULLA ROHAN REDDY	YES
90	18J41A0198	KUCHADI ABHIJEETH RAO	YES
91	18J41A0199	MAIDAMWAR SAI CHARAN	YES
92	18J41A01A1	MOGILI AKHILADEEPTHI	YES
93	18J41A01A3	MUTYAPU SAIKRISHNA	YES
94	18J41A01A4	NALLAKUNTA SHRAVANI	YES
95	18J41A01B4	TARUN KUMAR YADAV	YES
96	18J41A01B5	THALLA RAMYA	YES
97	18J41A01B6	THOGARLA RAVI	YES
98	18J41A01B7	THOTAPALLI DIVYA	YES
99	18J41A01B8	VANGETI BHARGHAV REDDY	YES
100	18J41A01C2	ALLU JAGAN SAI	YES
101	18J41A01C3	ANTHATI SAITEJA	YES
102	18J41A01C4	BANOTH ROJA	YES
103	18J41A01C5	BARADHI SAI PRIYA	YES
104	18J41A01C9	BOJA BHUPATHI REDDY	YES
105	18J41A01D0	CH ESWAR SAI	YES
106	18J41A01D3	CHITLA LIKHITHA GANGADHAR	YES
107	18J41A01D5	DASARI AKHILVARDHAN REDDY	YES
108	18J41A01D6	DHATRIK SAI RAJ KARAN	YES
109	18J41A01D7	ESAMPALLI ANUDEEP	YES
110	18J41A01D8	G TRINAY YADAV	YES
111	18J41A01D9	GUDIME PRANAY DHEERAJ	YES
112	18J41A01E0	GUGULOTH RAVIKUMAR	YES
113	18J41A01E3	KAKKIRENI SHIVA	YES
114	18J41A01E7	KARAMKANTI VENKATESH	YES
115	18J41A01G3	NAGULAPALLY MANIDEEP	YES
116	18J41A01G4	PALAKURTHY MOUNIKA	YES
117	18J41A01G5	POOSA RITHISH	YES



S.NO.	ROLL NO.	STUDENT NAME	COURSE COMPLETED
118	18J41A01H6	THOTA SPANDANA	YES
119	18J41A01H7	THUMULA SAHITHI	YES
120	18J41A01H8	VANMA SOUMYA	YES
121	19J45A0101	AZHAR HUSSAIN	NO
122	19J45A0102	BANALA ROHINI REDDY	YES
123	19J45A0105	C ARUN KUMAR	YES
127	19J45A0107	GANDHAM SRAVANI	YES
128	19J45A0108	GANDLA PRAVEEN	YES
129	19J45A0109	JANJIRALA SHRESHTAVI	YES
130	19J45A0112	M MANIKANTA PRASAD	YES
131	19J45A0113	MANGALI LATHA	YES
132	19J45A0116	SEESAM CHANDU	YES
133	19J45A0117	VAIKUNTA LAXMI POLASRI	YES
134	19J45A0118	VEMULA ABHISHEK	YES



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Maisammaguda (H), Medchal-Malkajgiri District, Telangana State –
500100

DEPARTMENT OF CIVIL ENGINEERING

REPORT - NON DESTRUCTIVE TECHNIQUES

NDT stands for Non-Destructive Testing. It refers to an array of inspection methods that allow inspectors to evaluate and collect data about a material, system, or component without permanently altering it. In the field, NDT is often used as an umbrella term to refer to non-destructive inspection methods, inspection tools, or even the entire field of non-destructive inspections. While NDT methods are typically associated with industrial use cases, like inspecting weak points in a boiler at an oil refinery, uses in medicine are actually some of the most common. For example, an expecting mother getting an ultrasound to check on the health of her baby would be considered an NDT use case, as would getting an X-ray or MRI to learn more about an injury. But it's important to note that NDT does not necessarily require the use of special tools, or any tools at all.

When inspectors in industrial settings review the outside of a pressure vessel with their naked eye, that would fall under the NDT designation, since they are collecting data on the status of the boiler without damaging it. On the other hand, using a sophisticated tool like an ultrasonic sensor to look for defects in a certain material or asset would also be called NDT. NDT is the life blood of a well-run facility, and the high importance of NDT is known by any trained inspector. Not only does the technician need to be certified in a specific NDT method, but they also need to know how to operate the equipment being used to gather data. Understanding equipment capabilities and limitations is the difference between making an accept or reject determination. Some of the most important types of NDT inspections are of assets like boilers and pressure vessels, which could be incredibly dangerous if not properly maintained. Non-Destructive Testing (NDT) is used to collect information about a material in ways that do not alter it (i.e., without destroying it). Destructive Testing (DT) is used to collect information about a material in ways that do alter it in Destructive Testing, for example, a piece of the material might be scraped away for analysis or altered in some other way onsite.


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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. G. Bhavani bearing Roll Number: 21J41D2006 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

Coordinator

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. P. Venu Gopal bearing Roll Number: 21J41D2018 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. T. Sreelatha bearing Roll Number: 21J41D2027 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. C. Sai Kumar bearing Roll Number: 20J41D2007 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. G. Preethi bearing Roll Number: 20J41D2010 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. T. Pravallika bearing Roll Number: 20J41D2026 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. C. Venkata Raja Sekhar bearing Roll Number: 18J41A0112 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. D. Shanthivardhan bearing Roll Number: 18J41A0114 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. C. Keerthana bearing Roll Number: 18J41A0174 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. C. Pranahitha bearing Roll Number: 18J41A0175 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. K. Nithin Reddy bearing Roll Number: 18J41A0195 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. A. Sai Teja bearing Roll Number: 18J41A01C3 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. G. Trinay Yadav bearing Roll Number: 18J41A01D8 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. K. Venkatesh bearing Roll Number: 18J41A01E7 from Malla Reddy Engineering College (Autonomous) has successfully completed Value added course on “**Non Destructive Techniques**” on 14th – 18th March 2022 organized by the Department of Civil Engineering.

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