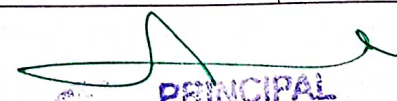


GOVERNMENT DEGREE COLLEGE, NARSAPUR, DIST. MEDAK
DEPARTMENT OF MATHEMATICS
(Academic Year 2021-22)

Significant Achievements of the Department

1.E-Content Development (Preparation of YouTube Video Lectures)


Sl. No	Date	Semester	Topic Name	YouTube Video Link	Time
1	07-10-2021	II	Non-Homogeneous Differential Equations	https://youtu.be/6n2DtawKE6k	26.52 min
2	07-10-2021	II	Non-Homogeneous Differential Equations	https://youtu.be/4Ti0s4Ky6mA	31.17 min
3	07-10-2021	II	Non-Homogeneous Differential Equations	https://youtu.be/BmTT_z_Z71c	23.37 min
4	07-10-2021	II	Methods to solve Non-Homogeneous Differential Equations	https://youtu.be/q9BFL3Cn3y8	36.51 min
5	06-10-2021	II	Methods to solve Non-Homogeneous Differential Equations	https://youtu.be/Rs5bojM7PFs	36.51 min
6	21-08-2021	IV	Algebra-Theorems and Problems of order of an element in a group	https://youtu.be/d-cSZS1bP-l	34.31 min
7	20.08.2021	IV	Algebra-Problems of order of an element in a group	https://youtu.be/QcuYVWxe2LY	36.45 min
8	20.08.2021	IV	Construction of Cayley Table	https://youtu.be/aQegaAL2vcw	35.42 min
9	23.07.2021	VI	Neville's Method-Problems	https://youtu.be/QcT3Uee8-wE	42.05 min
10	23.07.2021	VI	Lagrange's Interpolation Polynomial	https://youtu.be/onzCHRWPkoM	45.13 min
11	21.07.2021	VI	Taylor series Expansion-Gradient,Divergence&Curl	https://youtu.be/KHhJDUUnSZiY	37.16 min
12	18.07.2021	VI	Problems of Partial Differential Equations	https://youtu.be/jLN60zhSJwg	44.12 min
13	08.07.2021	II	Problems of Exact Differential equations	https://youtu.be/Dlfr7hMQ6e0	39 min
14	06.07.2021	II	Necessary Sufficient Condition for Exact Differential Equations	https://youtu.be/Dl1d0nl6eLQ	38.33 min
15	01.07.2021	II	Exact Differential Equations	https://youtu.be/mCM7NGg8vKY	35.27 min
16	19.06.2021	IV	Cayley's composition Table	https://youtu.be/6rywJLCvVck	46.04 min
17	17.06.2021	VI	Directional Derivatives of a given surface at given point	https://youtu.be/fzinmpE5Yjg	44.01 min
18	14.06.2021	II	Reducible to Linear Differential Equations	https://youtu.be/FYlxC5VMIKk	34.01 min


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Sl. No	Date	Semester	Topic Name	YouTube Video Link	Time
19	14.06.2021	II	Bernoulli's Differential Equations	https://youtu.be/02c7pVvwu-Y	37.04 min
20	14.06.2021	II	Reducible to Linear Differential Equations	https://youtu.be/f0VmrX32E0c	32.46 min
21	14.06.2021	II	Linear Differential Equations	https://youtu.be/2sKg-wsGknk	35.03 min
22	14.06.2021	II	Linear Differential Equations-Problems	https://youtu.be/hoGs3OIRbWI	41.14 min
23	14.06.2021	II	Reducible to Homogeneous Differential Equations	https://youtu.be/pnlkAP_9moo	38.05 min
24	14.06.2021	II	Reducible to Homogeneous Differential Equations	https://youtu.be/h-c26xqO7sU	42.44 min
25	14.06.2021	II	Homogeneous Differential Equations	https://youtu.be/1Nd-ljYML4	45.09 min
26	14.06.2021	II	Homogeneous Differential Equations	https://youtu.be/Bnv-L7GsrUM	40.28 min
27	14.06.2021	II	Homogeneous Differential Equations	https://youtu.be/5gi4hdoZGo4	41.53 min
28	14.06.2021	II	Separation of Variables Method	https://youtu.be/7i9nu20nI90	42.49 min
29	11.06.2021	II	Separation of Variables Method-Problems	https://youtu.be/-8bSqvun2gQ	41.04 min
30	11.06.2021	VI	Problems of Gradient	https://youtu.be/jMDlqqGwH2k	41.04 min
31	11.06.2021	II	Differential Equations-Separation of Variables Method	https://youtu.be/QoH6aiOMA80	41.50 min
32	10.06.2021	IV	Algebra-Problems of Subgroups	https://youtu.be/UMKvhMIDtew	40.10 min
33	10.06.2021	VI	Definition of Gradient, Divergence & Curl	https://youtu.be/8TNdtPtLeRc	38.32 min
34	10.06.2021	II	Differential Equations-Separation of Variables Method	https://youtu.be/TdUvRSMoP0k	41.40 min
35	04.06.2021	II	Formation of Differential Equations	https://youtu.be/q0JSznSy4bE	50.10 min
36	03.06.2021	II	Differential Equations-Examples and Types	https://youtu.be/CivgLQPUpbY	46.05 min

2. The Department of Mathematics has submitted the Student Study Project for the Academic Year 2021-2022 and the submitted project on "**Applications of Differential Equations**" has been selected **Jignasa State Level Competition** and also submitted four individual group projects on "**APPLICATIONS OF MATRICES**", "**INDIAN MATHEMATICIANS**", "**USE OF MATHEMATICS IN EVERYDAY LIFE**", "**THE BRAIN GAME SUDOKU PUZZLES**" under the supervision of the Mathematics Faculty.


Signature of the Lecturer


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