

# GOVERNMENT DEGREE COLLEGE, YELLANDU

(Affiliated to Kakatiya University, Warangal)

Re-Accredited by NAAC with “B” Grade

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## USING ICT TOOLS

### ACADEMIC YEAR 2021-2022

### DEPARTMENT OF MATHEMATICS

Topic	Duration	Video link
Bases of vectors	46:34:00	<a href="https://youtu.be/Ri6DYTIINu0">https://youtu.be/Ri6DYTIINu0</a>
Eigen values	44:43:00	<a href="https://youtu.be/i7DWVRVhQaQ">https://youtu.be/i7DWVRVhQaQ</a>
Dimensions of vectors space	47:54:00	<a href="https://youtu.be/NTR34oigT2s">https://youtu.be/NTR34oigT2s</a>
Eigen values and Eigen vectors	48:34:00	<a href="https://youtu.be/Hg1hVXZ0NSE">https://youtu.be/Hg1hVXZ0NSE</a>
Eigen values and Eigen vectors part2	47:33:00	<a href="https://youtu.be/BXh4itp-OVM">https://youtu.be/BXh4itp-OVM</a>
Diagonalisation	45:12:00	<a href="https://youtu.be/CiHWjSr_2Gw">https://youtu.be/CiHWjSr_2Gw</a>
Diagonalising matrices	44:24:00	<a href="https://youtu.be/HLK-rnH_eMU">https://youtu.be/HLK-rnH_eMU</a>
Partial differentitation	44:08:00	<a href="https://youtu.be/hWVaOW1eRd8">https://youtu.be/hWVaOW1eRd8</a>
Homogenous function	44:44:00	<a href="https://youtu.be/NclcmQtEzGc">https://youtu.be/NclcmQtEzGc</a>
Examples of Homogenous function	40:26:00	<a href="https://youtu.be/vS_sFIUrskQ">https://youtu.be/vS_sFIUrskQ</a>
composite function	44:01:00	<a href="https://youtu.be/VlrGtORD4Ks">https://youtu.be/VlrGtORD4Ks</a>
Examples of homogenous function	43:26:00	<a href="https://youtu.be/DtqamJ7mDGE">https://youtu.be/DtqamJ7mDGE</a>
Implicit function	45:50:00	<a href="https://youtu.be/9PSCy6kjmj4">https://youtu.be/9PSCy6kjmj4</a>
Equality of repeated derivates	48:02:00	<a href="https://youtu.be/vHWLcc_16_M">https://youtu.be/vHWLcc_16_M</a>
Equality of $f_{xy}$ and $f_{yz}$	47:02:00	<a href="https://youtu.be/yEUaiQYJ9Yw">https://youtu.be/yEUaiQYJ9Yw</a>
Taylor's theorem function of 2 variables	45:51:00	<a href="https://youtu.be/yCO2ZDXkuKY">https://youtu.be/yCO2ZDXkuKY</a>
Maxima and minima	50:23:00	<a href="https://youtu.be/VxNuGUMHVZQ">https://youtu.be/VxNuGUMHVZQ</a>
Maxima and minima	44:22:00	<a href="https://youtu.be/J7NIuJ7xkKc">https://youtu.be/J7NIuJ7xkKc</a>
Problems on maxima and minima	46:54:00	<a href="https://youtu.be/XKMMYnbVs2w">https://youtu.be/XKMMYnbVs2w</a>
Lagrange's theorem	53:35:00	<a href="https://youtu.be/5_gRTBDrSJE">https://youtu.be/5_gRTBDrSJE</a>
Lagrange's theorem	43:06:00	<a href="https://youtu.be/4leUTdQXGkw">https://youtu.be/4leUTdQXGkw</a>
linearly independent vectors	45:14:00	<a href="https://youtu.be/8gt28jAJuAQ">https://youtu.be/8gt28jAJuAQ</a>
Change of basis	41:12:00	<a href="https://youtu.be/Mwv17ErXTMI">https://youtu.be/Mwv17ErXTMI</a>