

MATHEMATICS (BSM 101)

Video content

Topic	Video Link
Easy Mathematics	https://www.youtube.com/channel/UC8lqQOs36sMT8RvV007sr9Q
Number System	https://youtu.be/sG7pMmF4gPM
Set Theory	https://youtu.be/PqHRkD_9oLQ
Subset and Power Set	https://youtu.be/OKegX0k4kbM
Binomial Theorem	https://youtu.be/oWU0oUCADzY
Inverse Binomial Series	https://youtu.be/XrXMNml2z2k
Combination	https://youtu.be/nwYkHDcS1Yk
Permutation	https://youtu.be/Fz-VzBHZm8Y
Sequence and Series	https://youtu.be/2ubbQbe2lLw
Arithmetic Progression	https://youtu.be/7nt4GF5QxNw
Geometric Progression	https://youtu.be/lcVUTjTuJD0
Harmonic Progression	https://youtu.be/9sLgaRo1DAA
Geometrical approach of A.P., G.P. & H.P.	https://youtu.be/wMwrwwiH1P0
Order & Degree of Differential Equation	https://youtu.be/vv0Kun9cwuU
Formation of Ordinary Differential Equation	https://youtu.be/HMG0zdRle8c
Singular Solution, Particular Solution & General Solution	https://youtu.be/i33X39FUXjU
Existence and Uniqueness Criteria of ODE	https://youtu.be/9YCCIUuHboU
Methods to solve ODE	https://youtu.be/24aX3kHrOj0
Separation of Variable	https://youtu.be/xiPOWN9oYG8
Differential Equations Reducible to Separation of Variable	https://youtu.be/b8lDAtWG0a0
Homogeneous Differentiable Equation	https://youtu.be/HtDgmJKhAow
Differential Equations Reducible to Homogeneous	https://youtu.be/gTZpzLE2PrE
Rolle's Theorem	https://youtu.be/4LWpbfGbNLg
Lagrange's Mean Value Theorem	https://youtu.be/TqCoRiSWt8o
Cauchy's Mean Value Theorem	https://youtu.be/JkmP_gDUt4I
Taylor's & Maclaurin's Theorems	https://youtu.be/uYtf4iYhL-l
Infinite Series with application	https://youtu.be/Q3WIHwDDj1Y
L'Hospital Rule	https://youtu.be/3TUybPf1ipE
Limit, Convergence and Boundedness	https://youtu.be/Ngs8VlrCOVo

Example on Convergent Sequence	https://youtu.be/-Dsl2n-r7L4
Convergence of an Infinite Series	https://youtu.be/VlnCo7ZYSd4
Series of Positive Terms	https://youtu.be/8ACCYm_5mfs
Some Useful Sequence	https://youtu.be/UES9aoR4AYw
Geometric Series and it's Convergence	https://youtu.be/z-NFpUL4N_U
p-Series and it's Convergence	https://youtu.be/Yagtk1pfgKs
Comparison Test	https://youtu.be/AUjkMV3F8dA
D'Alembert's Ratio Test	https://youtu.be/j8OyYUEd43g
Why D'Alembert's Ratio Test Fails	https://youtu.be/u5dW2o-I9Tc
Cauchy's Root Test	https://youtu.be/OWxpsfijp9c
Raabe's Test	https://youtu.be/E01mpQE7OQk
Gauss' Test	https://youtu.be/6kP7I4ocu10
Logarithmic Test	https://youtu.be/brW9Bi2fH94
Alternating Series & Leibnitz's Theorem	https://youtu.be/RTSnBBBladU
Absolutely Convergent and Conditionally Convergent	https://youtu.be/w9MvQfnGv_c
Power Series & Radius of convergence	https://youtu.be/2ns210MM7mg
Advance Power Series	https://youtu.be/ZNluwKCmUp8
Definition of Graph	https://youtu.be/f13HPz2PhQE
Degree of a vertex	https://youtu.be/vL0cJXBp5-Q
Regular & Complete Graph	https://youtu.be/Y7OD81B6vUI
Bipartite Graph	https://youtu.be/xt7LY9o8kvQ
Walk, Path, Trail, Circuit, Cycle	https://youtu.be/aA09Zw-c2yY
Eular Graph	https://youtu.be/aZ5yVkXjzOI
Hamiltonian Graph	https://youtu.be/JM7t1KelmMI
Adjacency Matrix	https://youtu.be/HsKK5J60IJc
Incidence Matrix	https://youtu.be/oU178hSvARo
Isomorphism of Graph	https://youtu.be/rmXA4SSJH4I
Dijkstra's Algorithm	https://youtu.be/7VLoDNcprI4
Tree and related theorem	https://youtu.be/B5J53vM0oB4
Binary Tree	https://youtu.be/SJ-Lsz1goFs
Distance, Eccentricity	https://youtu.be/KAPfjNqPgHc
Spanning Tree	https://youtu.be/qBiS5PdaZ4o
BFS Algorithm	https://youtu.be/OAM-rIXX3Qk
DFS Algorithm	https://youtu.be/9IFAVv954i0
Kruskal's Algorithm	https://youtu.be/aOK1N8v8IBQ
Prim's Algorithm	https://youtu.be/U1yDiTO9VbM