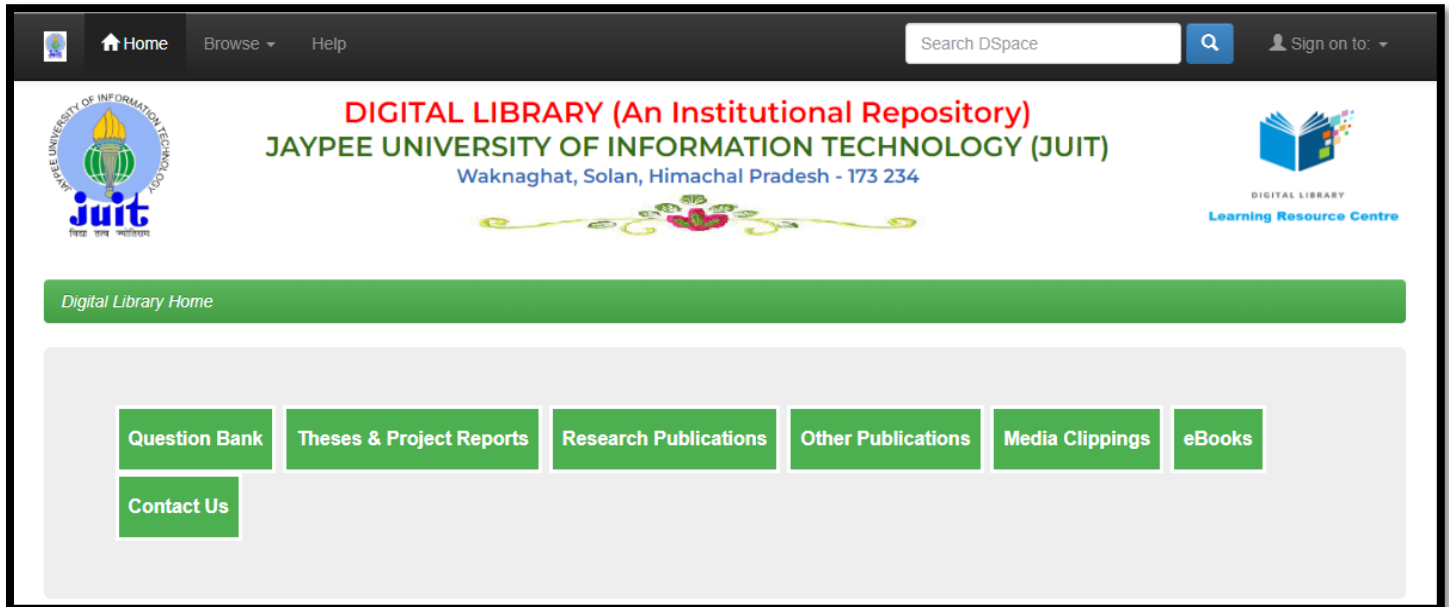


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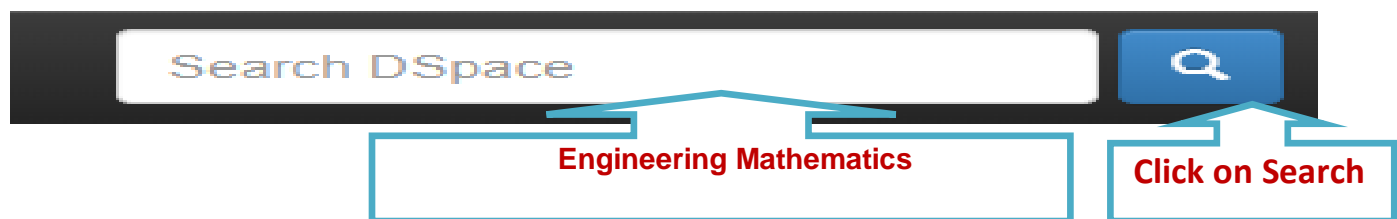


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Title: Engineering Mathematics-I (18B11MA111) T-3 December, 2018 (Sem-1) B.Tech_CE_CSE_ECE_IT
 Keywords: Engineering Mathematics
 Issue Date: 2018
 Publisher: Jaypee University of Information Technology, Solan, H.P.
 URI: <http://172.16.72.7:8080/jspui/xmlui/handle/123456789/1449>
 Appears in Collections: B.Tech.

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TEST - III, December 2018

B.Tech (ECE/CSE/CE/IT)

Course Code: 18B11MA111

Course Title: Engineering Mathematics - I

Course Credits: 4

Max. Marks: 35

Max. Time: 2 Hours

Instructions: ALL questions are compulsory. Use of calculator is not allowed.

1. Find maximum and minimum distances of point (3, 4, 12) from $x^2 + y^2 + z^2 = 1$. (5 Marks) [CO-2]

2. Change the order of integration in $\int_0^1 \int_{x^2}^{2-x} xy \, dy \, dx$ and hence evaluate it. (5 Marks) [CO-3]

3. Consider the *piecewise continuous* function: (3 Marks) [CO-5]

$$f(t) = \begin{cases} 2 & , 0 \leq t < 1 \\ 3 - t & , 1 \leq t < 3 \\ 0 & , 3 \leq t < \infty \end{cases}$$

(a) Express $f(t)$ in terms of *unit-step* function.

(b) Finally determine the Laplace transform of $f(t)$ by using a suitable *shifting* property.

4. Find the inverse of $\frac{3s}{(s^2 + 1)^2}$ using Laplace convolution. (4 Marks) [CO-5]

5. Use Laplace transform to solve $\frac{d^2y}{dt^2} - 4\frac{dy}{dt} + 4y = 0$ with $y(0) = 1, y'(0) = 1$. (5 Marks) [CO-5]

6. Solve the following system of equations using Gaussian elimination method: (4 Marks) [CO-6]

$$\begin{aligned} x + y + z &= 3 \\ x + 2y + 2z &= 5 \end{aligned}$$