



# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



**Skill India**  
कौशल भारत - कुशल भारत

This certificate is awarded to

**SAKTHISHIVANI K**

for successfully completing the course

**Bioreactor Design and Analysis**



with a consolidated score of **51** %

Online Assignments	16.13/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: **206**

**Prof. Andrew Thangaraj**

Chair

Centre for Outreach and Digital Education, IITM

**Jan-Mar 2025**

**(8 week course)**

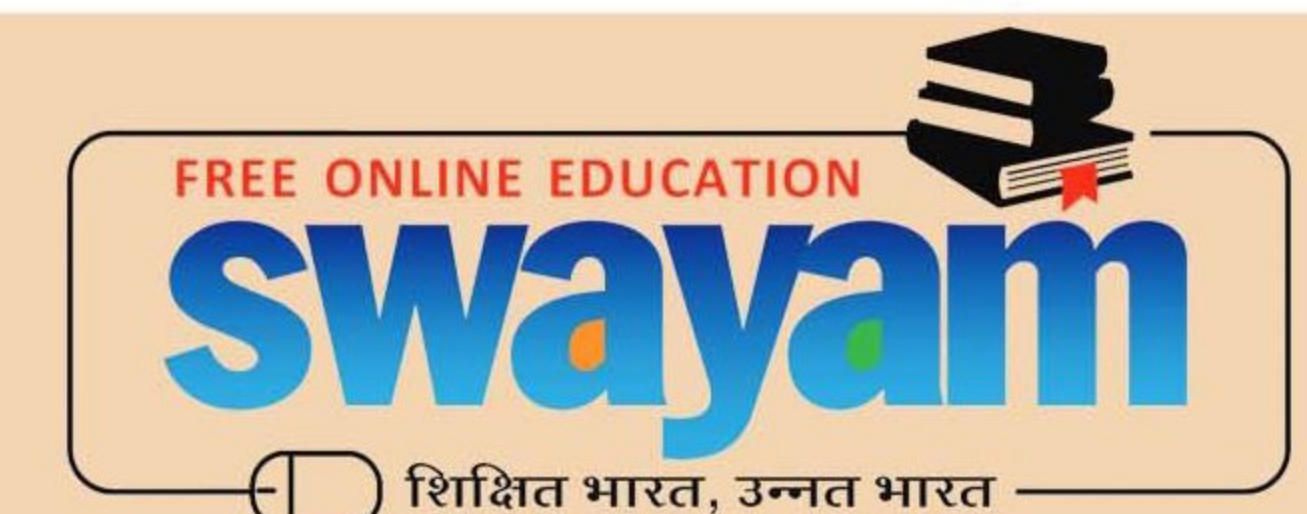
**Prof. Vignesh Muthuvijayan**

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25BT09S446900280

To verify the certificate



No. of credits recommended: 2 or 3