



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ASHWIN MUDGAL

for successfully completing the course

Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries

with a consolidated score of **45** %

Online Assignments	15.06/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **336**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2025

(12 week course)

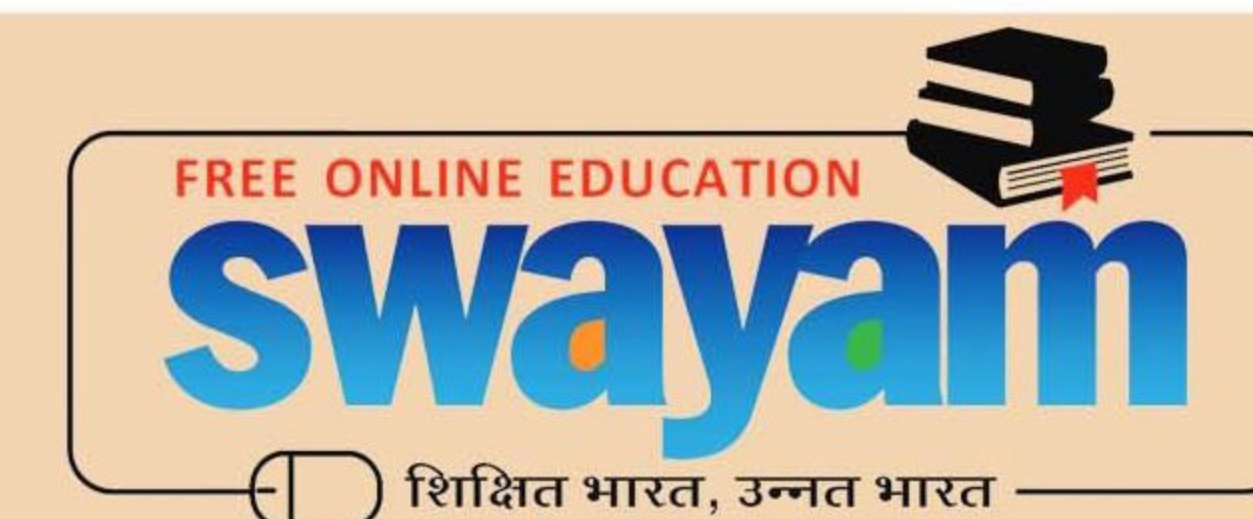
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CY43S556600436

To verify the certificate



No. of credits recommended: 3 or 4