

IIT Mandi
Proposal for a New Course

Course Number: ME591

Course Name: Special Topics in Photovoltaics

Credits: 1-0-0-1

Prerequisites: None

Intended for: M.Tech. Energy Engineering, B.Tech, M.Tech (VLSI), MS and PhD

Distribution: Elective

Semester: one time

Preamble: The basic objective of this course is to provide exposure to cutting edge fabrication technologies for photovoltaics.

Course Content

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|------------------------------|-----|------|
| 1. Fundamentals. | 2hr | |
| 2. Design of solar cells. | 4hr | |
| 3. Wafer based technology. | 2hr | |
| 4. Thin film technology. | 2hr | |
| 5. Emerging technology. | 2hr | |
| 6. Energy Storage Technology | | 2 hr |

Text Book

Wenham, S., M. Green, et al., eds. *Applied Photovoltaics*. 2nd ed. Routledge, 2006.

Proposed by: Anand K. Kulkarni (Michigan Technological University)
School: SE

Recommended/Not Recommended, with Comments: SE Chair

Dean (Academic)

Approved / Not Approved