



DHARMAMURTHI RAO BAHADUR CALAVALA CUNNAN CHETTY'S HINDU COLLEGE

(AUTONOMOUS)

*LINGUISTIC (TELUGU) MINORITY STATUS CONFERRED BY THE GOVERNMENT OF
TAMIL NADU* Re-accredited by NAAC Affiliated by University of Madras
PATTABIRAM, CHENNAI - 600 072.



Clean Energy
for a Brighter
Future

DEPARTMENT OF PHYSICS *organises*

Two Day Workshop on

Fabrication of Solar Panels Technique

in collaboration with
GEMINI SCIENTIFIC COMPANY

Chief Guest



G.K. SHANMUGASUNDARAM

Managing Partner – GEMCO Renewable
Energy Training Institute & The Gemini
Scientific Company



DATE: 17.09.2026 & 18.09.2026



TIME: 11:00 AM



VENUE: III- B.SC. CLASSROOM

Dr. G. SURESH

Assistant Professor of Physics & Head
Dean of Sciences
Program convenor

Dr. K. SRIDHAR

Dean (Skill Development)

Dr. N. Rajendra Naidu
Director

Dr. G. Kalvikkarasi
Principal

Sri . M. Venkatesaperumal
Honorary Secretary

Members of Trust Board

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Sri. RAMESH CHITRALA

Sri. B. GAUTHAM

Sri. C. PARANKUSAM

Sri. VEERARAGHAVA MUKKALA

Dr. VUPPUTUR SHAKTI AKASH RAJ



Solar Today
Sustainable Tomorrow



ABOUT THE WORKSHOP

A two-day workshop on Fabrication of Solar Panels and Solar Photovoltaic (PV) Power Systems will be conducted by GEMCO Renewable Energy Training Institute on 17th and 18th September 2026 at the college premises. The workshop aims to provide students with fundamental and practical knowledge of solar energy conversion, solar cell technology, panel design, electrical fundamentals, and renewable energy applications, while encouraging opportunities in research, technology, entrepreneurship, and green energy. The programme includes 3 hours of theory and 9 hours of practical training, covering solar cell basics, Ohm's law, series and parallel connections, PN junction diodes, solar cell working principles, I-V characteristics, panel components, power calculations, cell connectivity, tabbing, encapsulation, testing, and panel fabrication. Participants will be provided with 24 Nos. of 4W solar cells and necessary accessories to develop an approximately 96W solar panel, which will be laminated and handed over after completion. Certificates will be issued upon successful completion of the workshop. The college is requested to provide a projector with screen, blackboard/whiteboard, suitable power supply, and approximately eight working tables for the practical sessions.



ABOUT THE CHIEF GUEST



G.K. Shanmugasundaram is a qualified Chemical Engineering and Chemistry professional with A.I.I.Chem.E. in Chemical Engineering from the Indian Institute of Chemical Engineers, Diploma in Industrial Pollution & Control (D.I.P.C.), A.I.C.(Equivalent to M.Sc. Chemistry), Diploma in Chemical Process & Instrumentation Control, and B.Sc. Chemistry from Madras University, along with training in ISO Audits. He is the Managing Partner of GEMCO Renewable Energy Training Institute and The Gemini Scientific Company, a leading manufacturer and supplier of physics and research laboratory instruments under the brand "GEMCO." He is certified by the Ministry of Micro, Small & Medium Enterprises, Government of India, for Solar Photovoltaic courses and has conducted hands-on Solar PV workshops for over ten years across several reputed colleges and institutions. He has also served as a Visiting Chemical Consultant for TANTIA-FNE, providing expertise in ISO, ISI, and chemical projects, and works as a freelance Chemical and Solar Consultant, offering guidance in process formulation, testing, troubleshooting, solar panel installation, and entrepreneurship. Previously, he worked for 18 years at Tamilnadu Petroproducts Limited in Quality Control, R&D, and Market Development. In recent years, he has also been associated with several colleges through MoUs and as an Industrial Expert on Boards of Studies, contributing his professional and industry expertise to academic institutions.

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