Dr. MAHALINGAM
MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY
Enlightening Technical Minds

Dr. MAHALINGAM
COLLEGE OF ENGINEERING AND TECHNOLOGY
Affiliated to Anna University, Chennai. Approved by AICTE. Accredited by NBA and NAAC with Grade A++
Udumalai Road, Pollachi - 642 003.

DEPARTMENT OF AUTOMOBILE ENGINEERING

NEWSLETTER

VOLUME - 11 ISSUE- 1 2021 - 2022

Institution Vision &Mission Mission

Vision

We develop a globally competitive workforce and entrepreneurs.

Mission

Dr. Mahalingam College of Engineering and Technology, Pollachi endeavors to impart high quality, competency based technical education in Engineering and Technology to the younger generation with the required skills and abilities to face the challenging needs of the industry around the globe. This institution is also striving hard to attain a unique status in the international level by means of infrastructure, state-of-the-art computer facilities and techniques

Department Vision &Mission Mission

Vision

To offer cutting-edge technology in the broad area of automobile engineering and develop globally competitive engineers.

Mission

- To develop automobile engineering graduates for a successful career in global automotive industry through effective teaching-learning and training.
- To develop the capability of graduates for creating innovative products / systems to enhance the quality of life.
- To inculcate in them the ability to solve societal problems through engineering and professional skills.

PEOs, POs & PSOs

Program Educational Objectives (PEOs)
Our graduates will :

PEO1: Technical Expertise: Actively apply technical and professional skills in engineering practices to face industrial challenges around the globe
PEO2: Higher studies and Research: Own their professional and personal development by continuous learning to create new knowledge
PEO3: Ethical Knowledge: Conduct themselves in a responsible, professional and ethical manner supporting sustainable economic development, which enhances the quality of life.

Programme Outcomes (Pos)
Graduating students / Graduate

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2.Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3.Design/development of solutions: Design solutions for complex engineering problems anddesign system components or processes that meet the specified needs with appropriateconsideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4.Conduct investigations of complex problems: Use research-based knowledge and researchmethods including design of experiments, analysis and interpretation of data, and synthesis of theinformation to provide valid conclusions.
PO5.Modern tool usage: Create, select, and apply appropriate techniques, resources, and modernengineering and IT tools including prediction and modeling to complex engineering activities with anunderstanding of the limitations.
PO6.The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to theprofessional engineering practice.
PO7. Environment and sustainability: Understand the impact of the professional engineering solutionsin societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.
PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member orleaderindiverse teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO1. Analyze the systems behaviour and optimize for the results using modelling, simulation and experiments.

PSO2. Design automotive components with due considerations of environment and sustainability.

Journal Publication by the Faculty Members

S.No	Name of the Faculty	Title of the Paper	Name of the Journal	Volume No., Issue No., Page No., and ISSN number	Month & Year of Publication
1	M. Selvakumar T. Ramkumar R. Narayanan M. Mohanraj	Grain size refinement, texture analysis and effect on the tensile properties of novel Inconel 718 alloys	Materials letters	Volume 292, Article 129633 ISSN 0167-577X	01 June 2021
2	S. Arulkumar P. Karuppusamy K. Lingadurai V. Sivananth	A Study on Mechanical Properties of Tungsten Carbide and Reinforced Magnesium Metal Matrix Composites for application of Piston	International Journal of Lightweight Materials and Manufacture	Volume 4, Issue 4,Pages 449-459 ISSN 2588-8404	10 July 2021
3	M. Selvakumar T. Ramkumar R. Narayanan M. Mohanraj	Wetting phase transition of grain boundaries and material performance of novel Inconel 718	Materials Letters	Volume 295,Article129858 ISSN 0167-577X	15 July 2021
4	D Shanmugam Rama Thirumurugan M	Experimental characterization of surface modified Palmyra Palm Leaf Stalk Fiber (PPLSF)	Journal of Natural Fibers	ISSN 1544046X, 15440478	25 August 2021

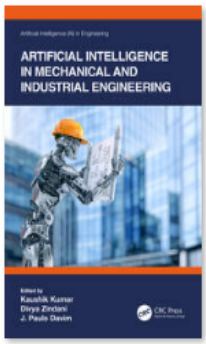
	Thiruchitrambalam B Maheshkumar D	/polymer composites– Mechanical, Crystallinity and Acoustic properties			
5	N. Praveenkumar S. Arulkumar D. Sadhasivam N. Boopalan S. Praveenkumar	Design and Analysis of Muffler for Engine Exhaust Noise and Heat Reduction	SAE Technical Paper	Technical Paper 2021-28-0128 ISSN: 0148-7191, e-ISSN: 2688-3627	15Sep 2021
6	N. Praveenkumar D. Sadhasivam N. Boopalan R. Manojkumar G E KithiyonJoshva J SahayaJufert Roy	An investigation on Corrosion and Wear Behaviour of Automotive Materials	SAE Technical Paper	Technical Paper 2021-28-0238 ISSN: 0148-7191, e-ISSN: 2688-3627	01 October 2021

Patent Publication by the Faculty Members

S.No	Name of the Faculty	Title of the Patent	Application No.	Month & Year of Publication
1	Dr.I.Daniel Lawrence **Dr.M.Thirunavukkarasu** Dr. B. Kishore Mr. C. Sathish **Dr.M.Selvakumar** Mr. T.Ramkumar	Cost effective convergence mechanism for self-regulating molding	202141021319A	11-06-2021
2	Mr.K. Sasikumar Dr. K. Hariharan Dr. T. Ramkumar **Dr. M. Selvakumar**	Pugh matrix based decision making for the borewell rescue system	202141020600 A	18-06-2021

Faculty as participants in Faculty development / training activities / STTPs

S.No	Name of the Faculty	Title of the Program	Venue/Center Organizing the Program	Duration of the Program
1	Dr. M. Selvakumar	Emerging Trends in Shipping Industry	ATAL Academy at Indian Maritime University Chennai campus	5 Days
2	Dr.S.K. Ashok	3D Printing and Design	ATAL Academy at Dr.Mahalingam College of Engineering and Technology	5 Days
3	Mr.C.Radhakrishnan	Future Trends in Artificial Intelligence and Data Science	Rajalakshmi Institute of Technology, Chennai	6 Days
4	Mr.R.Vishnuramesh kumar	Recent Advances in Mechanical Engineering: A Research Perspective	Mahatma Gandhi Institute of Technology, Telangana	5 Days
		NAAC Assessment & Accreditation Process	Shadan College of Engineering and Technology, Telangana	2 Weeks
5	Mr.A.Yazharasu	Future Trends in Artificial Intelligence and Data Science	Rajalakshmi Institute of Technology, Chennai	6 Days
6	Mr.P.P.Mahalingam	Recent Advances in Mechanical Engineering: A Research Perspective	Mahatma Gandhi Institute of Technology, Telangana	5 Days



Chapter

Artificial Intelligence in Predicting the Optimized Wear Behaviour Parameters of Sintered Titanium Grade 5 Reinforced with Nano B4C Particles

By T. Ramkumar, M. Selvakumar

Book Artificial Intelligence in Mechanical and Industrial Engineering

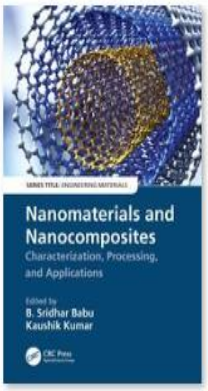
Edition	1st Edition
First Published	2021
Imprint	CRC Press
Pages	9
eBook ISBN	9781003011248

Share

ABSTRACT

The chapter reports on the optimization of the tribological conditions of titanium grade 5 (Ti-Al-V-B_4C) combinations using full factorial design. Powder metallurgy technique was used to prepare the titanium matrix composites. Using pin on disc machine, the elevated temperature wear behaviour was analyzed by varying the load (10–30 N) and temperature (30, 50, 100 and 150°C). By reinforcing the wt. % of nano B_4C particles, the wear resistance was reduced irrespective of temperature and sliding distances. For the experimental test conditions, the factors (wt. % of B_4C, sliding distance, load and pin temperature) were selected as self-determining variables. This design affects two responses: specific wear rate and coefficient of friction. Applied load, wt. % of the secondary particles and pin temperature play a significant role for wear properties.

Book Chapter Publication by Dr.M.Selvakumar



Chapter

Aging and Corrosion Behavior of Ni- and Cr-Electroplated Coatings on Exhaust Manifold Cast Iron for Automotive Applications

By T. Ramkumar, C. A. K. Arumugam, M. Selvakumar

Book Nanomaterials and Nanocomposites

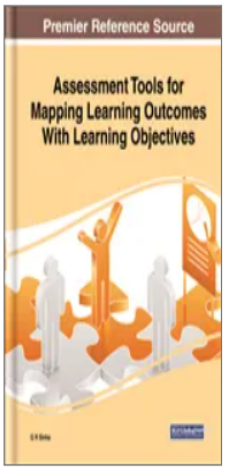
Edition	1st Edition
First Published	2021
Imprint	CRC Press
Pages	10
eBook ISBN	9781003160946

Share

ABSTRACT

This chapter discusses the corrosion behavior of the coated manifolds evaluated using the weight reduction method and Tafel exploration. The corrosion resistance of the coated samples was also monitored through corrosion density and corrosion potential of the uncoated and coated samples against corrosive environment. The corrosion behavior of the uncoated and coated samples was studied into two different methodologies: One is the weight reduction method and another one is the polarization technique. Hardness is directly proportional to the refinement of microstructure; it reflects the good bonding between the coating surfaces. The ability of iron materials has led to excessive corrosion, and hence, it attacked the cast iron very violently. Vickers' hardness was determined on the cross section of the uncoated and Ni- and Cr-electroplated cast iron samples which shows a significant increase in microhardness of 246 and 259 HV, respectively.

Book Chapter Publication by Dr.M.Selvakumar



Challenges and Issues in Implementation of OBE

K. A. Venkatesh, Calvin S. King

Source Title: Assessment Tools for Mapping Learning Outcomes With Learning Objectives
Copyright: © 2021 | Pages: 14
DOI: 10.4018/978-1-7998-4784-7.ch006

Abstract

In India, most higher education institutions are still in the modern traditional way, that is, a curriculum designed in a central place (region wise) called a university, where the question paper is set by someone and evaluated by someone. This system is neither teacher-centric nor student-centric, but it is in a different state. In the past two decades, there have been enormous changes in India's higher education sector, such as new players entering into the higher education arena to offer higher education, namely Deemed to be Universities, Private Universities. All these players are interested in implementing OBE just to attract the students. The involvement of stakeholders is not as expected as supposed to be. In this chapter, the authors bring out the challenges and issues in the implementation of OBE, mostly the factors that are affecting the success factor and partial solutions to the problem.

Chapter Preview

Top

6.2. Current Scenario

Six years after signing the Washington accord, higher education in Technical Institutions is still in the transition stage. Very few institutions have succeeded in implementing OBE and reaping its benefits. A variety of valid reasons for not being able to implement OBE exist. In order to understand this, one has to focus on the types of available institutions, the faculty members, the systems and kinds of students getting into the system across the country. Always the Institutions of national importance such as the Indian Institute of Technology, National Institute of Technology, few colleges in tier I cities are able to attract the best of students. The institutions in Tier II and Tier III cities/towns are unable to attract focused students.

Students who aspire for higher education are in their late teens. Unfortunately, institutions have different approaches to choosing or rather attracting their customers (students). These institutions are broadly grouped into affiliated colleges, autonomous colleges, deemed to be universities and private universities. These institutions adopt various admission processes ranging from centralized admission based on all India merit to just appearing in personal interviews. Understanding the pros and cons of all these processes and the systems in these institutions requires effort. Prospective students and their parents do not put these efforts. But most of the students are engaged in obtaining high marks and spending time in coaching centers. Invariably these coaching centers select the institute for the student.

Book Chapter Publication by Dr.Calvin Sophistus King

Book Publication by Faculty Members

S. No.	Authors	Title of the Book	Name of the Publisher	Page No. & ISBN Number	Month & Year of Publication *(MM/YYYY)*
1	M. Selvakumar T. Ramkumar	Artificial Intelligence in Mechanical and Industrial Engineering	Taylor & Francis Online	ISBN 9780367441760 Edition-1st Imprint-CRC Press Pages-9, Chapter 12	20-06-2021

Students Participations

S.No	Name of the Students	Title/Event Name	Name of the Organization	Event Date
1	Jeffry Rufus R	AutoCAD Mechanical, CATIA	Caddesk Bangalore	10-05-2021 to 19-07-2021
2	Thulasiram R	AutoCAD Mechanical, CATIA	Caddesk Bangalore	10-05-2021 to 19-07-2021
3	Logeshwarar D S	Mobile App Development	Department of CSE, St.Joseph's Institute of Technology, Chennai	07-06-2021
4	Vishnu Kumar S	Mobile App Developement	Department of CSE, St. Joseph's institute of technology	07-06-2021
5	Hariprasadh E M	PYTHON for beginners - Learn all the basics of	Udemy	29-06-2021

		python		
6	Logeshwarar D S	Regression analysis using python	Dept of ECE, Sethu Institute of Technology	06-07-2021
7	Sushruthan	Python for Begineers	Sololearn	09-07-2021
8	Manojkumar A	Advanced driver assistant systems	Udemy	17-07-2021
9	Manoj B	Programming for everybody (Getting Started with python)	Coursera(university of MICHIGAN)	17-07-2021

Alumni Interactions

S.No	Name of the Students	Event Date
1	Mr.Mohansamy R, Senior Analyst(CAE), Satyam – Venture Engineering Services Private Limited, Chennai	01/10/2021
2	Mr.Balaji Manikandan Application Development Senior Analyst-Salesforce Developer, Accenture India Private Limited, Chennai	03/09/2021
3	Mr.Faraday Ram Analyst – Crash and Safety, Ford India Private Limited - Actalent, Chennai	28/08/2021
4	Mr.Dhanussh EM Master's in Engineering Systems, HAN University of Applied Sciences, Arnhem, Netherlands	24/08/2021
5	Mr.Aravind Krishna N Design Engineer, Onward Technologies Private Limited, Chennai	13/08/2021
6	Mr.Kishore Marlo C Senior Lead Associate, TE Connectivity India Private Limited, Bangalore	06/08/2021

Spoken Tutorial Project at IIT Bombay

Certificate for Completion of Cpp Training

This is to certify that **BALVIN STEPHEN T** has successfully completed **Cpp** test organized at **Dr.Mahalingam College of Engineering & Technology** by **T PALANIAPPAN** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

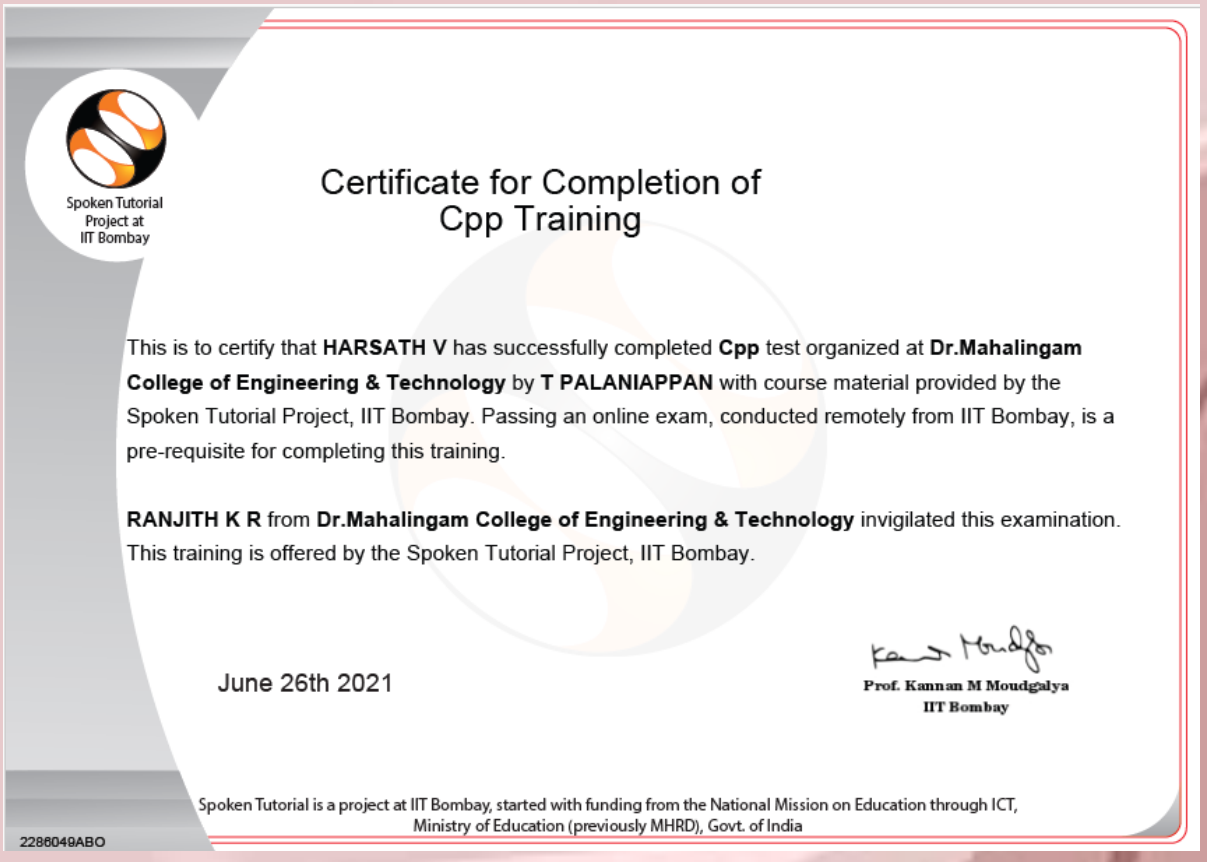
RANJITH K R from **Dr.Mahalingam College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

June 26th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

2285924300



Spoken Tutorial Project at IIT Bombay

Certificate for Completion of Cpp Training

This is to certify that **HARSATH V** has successfully completed **Cpp** test organized at **Dr.Mahalingam College of Engineering & Technology** by **T PALANIAPPAN** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

RANJITH K R from **Dr.Mahalingam College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

June 26th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

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Spoken Tutorial Project at IIT Bombay

Certificate for Completion of Python 3.4.3 Training

This is to certify that **DINESHBABU S** has successfully completed **Python 3.4.3** test organized at **Dr.Mahalingam College of Engineering & Technology** by **T PALANIAPPAN** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

YAZHARASU A from **Dr.Mahalingam College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

June 26th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

2285931JB8

Spoken Tutorial Project at IIT Bombay

Certificate for Completion of Python 3.4.3 Training

This is to certify that **MANOJ S** has successfully completed **Python 3.4.3** test organized at **Dr.Mahalingam College of Engineering & Technology** by **T PALANIAPPAN** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

YAZHARASU A from **Dr.Mahalingam College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

June 26th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

2285950AOV

Students Completed Manufacturing Strategy NPTEL Courses

S.NO	ROLL NO	NAME OF STUDENT	CERTIFICATE TYPE
1	19BAU003	Muthukumar G	Successfully completed
2	19BAU004	Vishnu Aadithyan	Successfully completed
3	19BAU005	Dhanush M	Elite
4	19BAU006	Karthika Ps	Successfully completed
5	19BAU009	Ebinesh B	Successfully completed
6	19BAU011	Paul Dharmaraj V	Successfully completed
7	19BAU017	Kavinprabhu K	Successfully completed
8	19BAU020	Yeshwanth	Successfully completed
9	19BAU022	Mohammad Nalifudee	Successfully completed
10	19BAU023	Nelson Nithiesh Raj Jegan	Successfully completed
11	19BAU027	Ajay S	Successfully completed
12	19BAU033	Manoj Kumar R	Successfully completed
13	19BAU035	Kavin V	Successfully completed
14	19BAU036	Jeffry Rufus R	Successfully completed
15	19BAU037	Dinesh Kumar R	Successfully completed
16	19BAU038	Ajmal Pulikkal	Successfully completed
17	19BAU039	Manikandan K	Successfully completed
18	19BAU042	Sabaresan K S	Elite
19	19BAU043	Thamarai Selvan S	Successfully completed
20	19BAU044	Thaneshwar AS	Successfully completed
21	19BAU047	Reghuram	Successfully completed
22	19BAU053	Thulasiram	Successfully completed
23	19BAU055	Mohamed Ibrahim A	Successfully completed
24	20BAU304	Sridaran T	Successfully completed
25	20BAU315	S Sabarinath	Successfully completed
26	20BAU326	Mvishal	Successfully completed
27	20BAU330	Abishekraja	Successfully completed
28	20BAU333	Mano Vasanth S	Successfully completed
29	20BAU335	Sandeep B	Successfully completed

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DHANUSH M

for successfully completing the course

Manufacturing Strategy

with a consolidated score of 69 %

Online Assignments	18.75/25	Proctored Exam	50.63/75

Total number of candidates certified in this course: 108

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Sep 2021
(8 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No:NPTEL21MG68S24190644

To validate and check scores: https://nptel.ac.in/noc

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

SABARESAN K S

for successfully completing the course

Manufacturing Strategy

with a consolidated score of 60 %

Online Assignments	18.75/25	Proctored Exam	41.63/75

Total number of candidates certified in this course: 108

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Sep 2021
(8 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

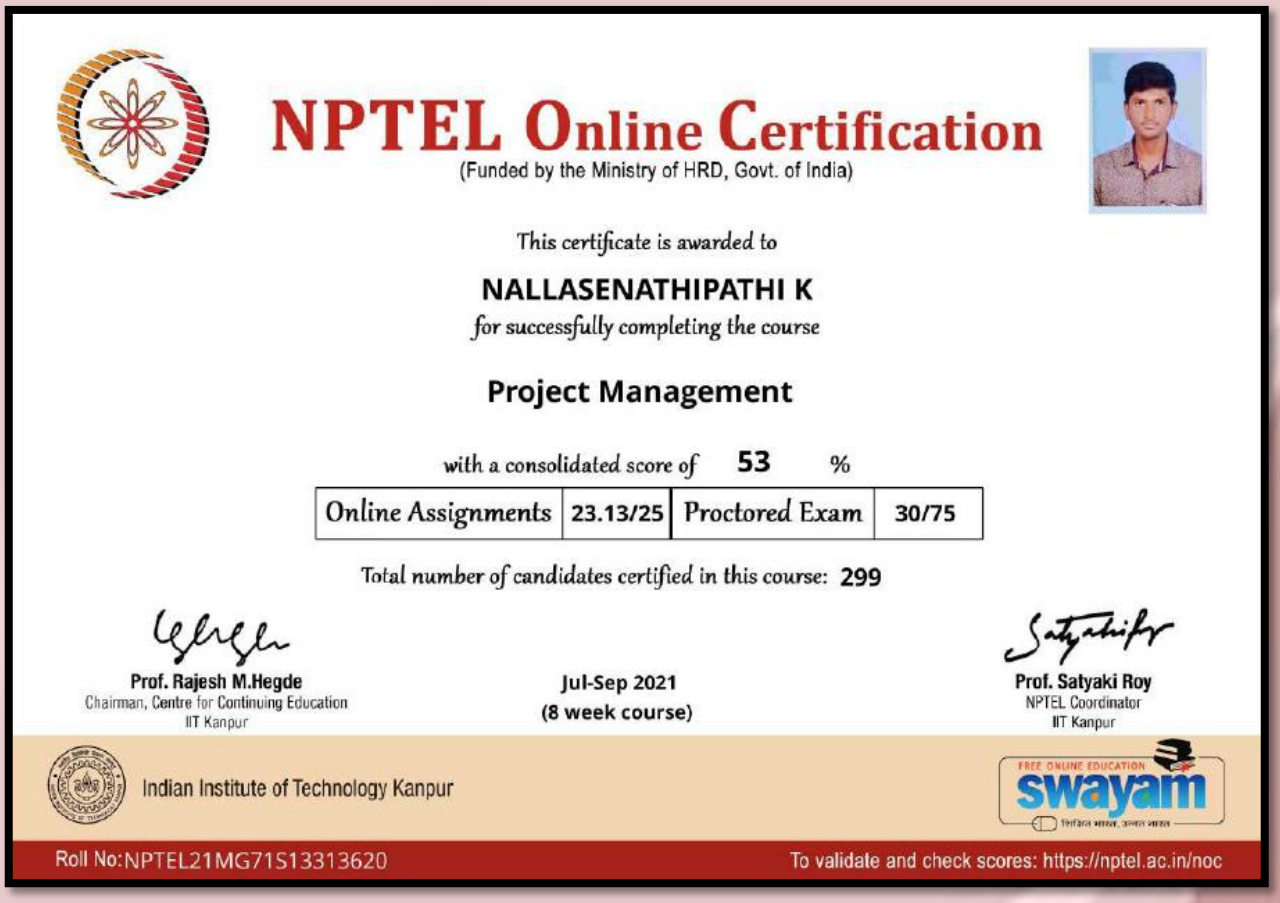
swayam

Roll No:NPTEL21MG68S23313634

To validate and check scores: https://nptel.ac.in/noc

Students Completed Project Management NPTEL Courses

S.NO	ROLL NO	NAME OF STUDENT	CERTIFICATE TYPE
1	19BAU001	Ashwanth A R	Successfully completed
2	19BAU018	Jayasuriya I	Successfully completed
3	19BAU031	Surya S	Successfully completed
4	19BAU034	Shandeep Vignesh H S	Successfully completed
5	20BAU301	Nallasenathipathi K	Successfully completed
6	20BAU324	Manoj P	Successfully completed
7	20BAU328	Ganesh Murthy T	Successfully completed
8	20BAU336	Girinath P	Successfully completed



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

NALLASENATHIPATHI K

for successfully completing the course

Project Management

with a consolidated score of 53 %

Online Assignments	23.13/25	Proctored Exam	30/75

Total number of candidates certified in this course: 299

Prof. Rajesh M.Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Sep 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

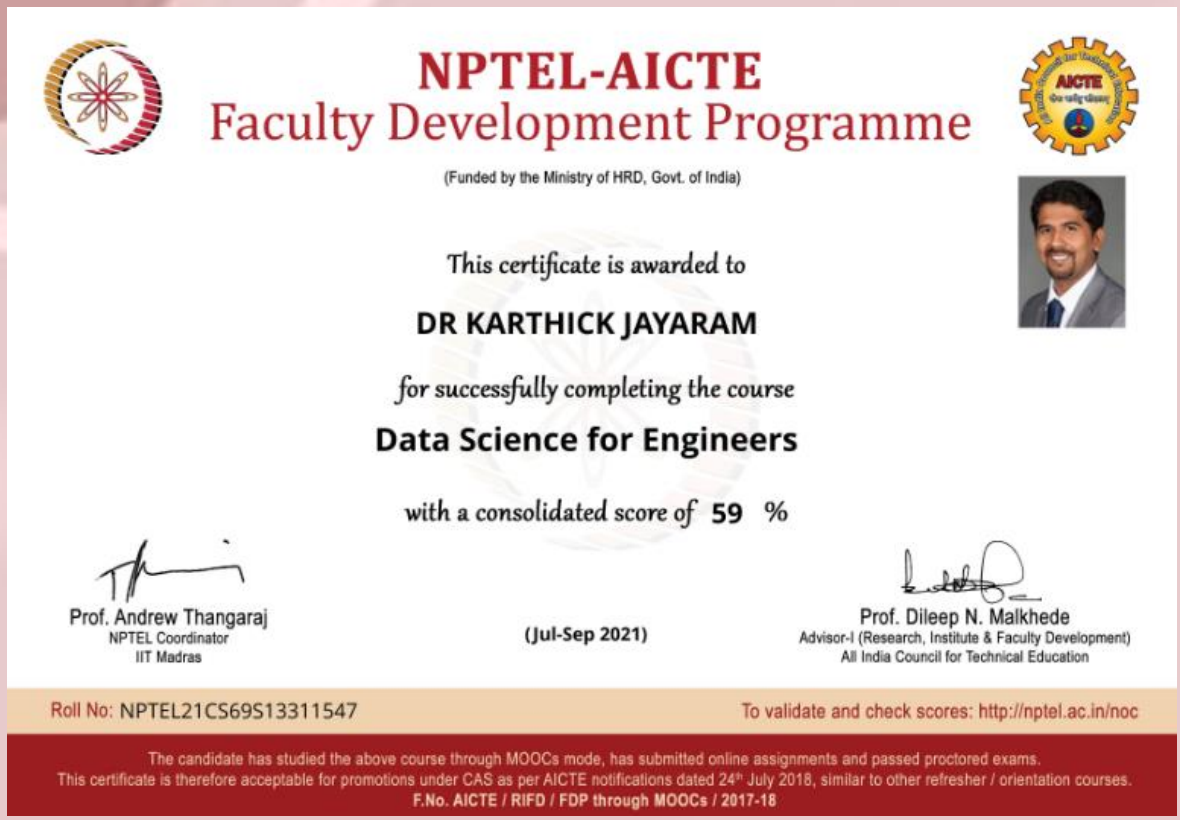
Roll No:NPTEL21MG71S13313620

To validate and check scores: https://nptel.ac.in/noc

Faculty Members Completed NPTEL courses

R.Vishnurameshkumar Completed NPTEL course on Manufacturing Strategy

Dr.Karthick Jayaram Completed NPTEL course on Learning Analytics Tools



NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DR KARTHICK JAYARAM

for successfully completing the course

Data Science for Engineers

with a consolidated score of 59 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Sep 2021)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

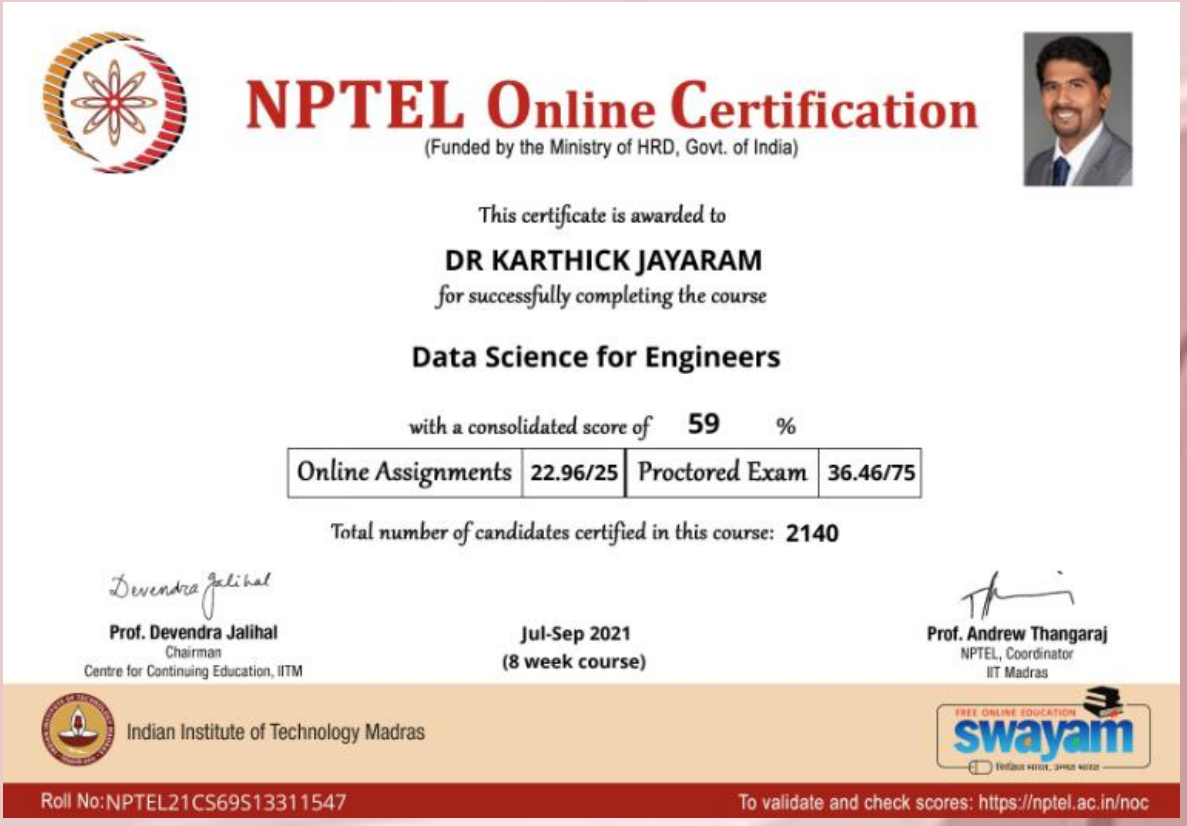
Roll No: NPTEL21CS69S13311547

To validate and check scores: http://nptel.ac.in/noc

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

Dr.Karthick Jayaram Completed FDP in NPTEL on Learning Analytics Tools

Dr.Karthick Jayaram Completed NPTEL course on Learning Analytics Tools



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DR KARTHICK JAYARAM

for successfully completing the course

Data Science for Engineers

with a consolidated score of 59 %

Online Assignments	22.96/25	Proctored Exam	36.46/75

Total number of candidates certified in this course: 2140

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jul-Sep 2021
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No:NPTEL21CS69S13311547

To validate and check scores: https://nptel.ac.in/noc

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DR KARTHICK JAYARAM

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **61** %

Online Assignments	24.08/25	Proctored Exam	36.75/75

Total number of candidates certified in this course: **1383**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Sep 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No:NPTEL21CS85S23311942

To validate and check scores: https://nptel.ac.in/noc

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DR KARTHICK JAYARAM

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **61** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Sep 2021)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL21CS85S23311942

To validate and check scores: http://nptel.ac.in/noc

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

No:ATAL/2021/1621866108

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy

Certificate

This is certified that Shanmugam D, Associate Professor of Dr MAHALAINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Machine Learning and its Application" from 2021-6-21 to 2021-6-25 at Dr Harisingh Gour University.

Director ATAL Academies

Coordinator

No: ATAL/2021/1627622132

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that selva kumar, Associate Professor of Mahalingam college of Engg and Tech participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Emerging Trends in Shipping Industry" from 20/09/2021 to 24/09/2021 at INDIAN MARITIME UNIVERSITY CHENNAI CAMPUS.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

No: 12/2022/1/M6/26495

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NITTT Registration No: 20202101956

has successfully completed

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