


Prof. Mohamed Iqbal Pallipurath

<p>Senior Director of Skill Development,</p> <p>Digital Bridge International, Hillsinai,</p> <p>Markaz Knowledge City,</p> <p>Calicut, Kerala, India</p>	
<p>PHONE: +91- 903 726 2144</p> <p>EMAIL: mohamediqbalp@gmail.com</p> <p>ORCID ID: 0000-0002-3301-1043</p> <p>FACEBOOK: fb.com/iqsoft</p> <p>X: X.com/mohamediqbalp</p> <p>linkedin.com/in/mohamediqbalp</p> <p>Skype: mohamediqbalp</p>	<h3>Career Objectives:</h3> <p>Teach without hindrance using the latest teaching tools continuing my research interests (Like AP Bio :)</p>
<h3>Personal Web</h3> <ul style="list-style-type: none">• https://www.iqsoft.in/• https://mohamediqbal.in/• http://pallipurath.in	<h3>Personal Blogs</h3> <ul style="list-style-type: none">• https://www.mohamediqbalp.blogspot.com/• https://www.mohamediqbalp.wordpress.com/• https://iqsoft.in/blog/• https://azadpalestine.wordpress.com/
<h3>Strengths : Key Highlights:</h3> <p>Expertise: Mechanical Engineering, AI, Sustainable Energy, Software Development.</p> <p>Leadership: Former HOD/Principal, Accreditation Coordinator, and Industry Consultant.</p> <p>Innovation: 20+ authored software tools, 27+ guided projects, and 20+ research papers.</p>	<ul style="list-style-type: none">• Ability to transform complex technical systems into clear, structured documentation.• Strong command of technical English.• Seasoned educator, researcher, and technologist experienced in mechanical engineering, skill development, and interdisciplinary innovation.• Passionate about leveraging cutting-edge teaching tools and advancing research in areas like sustainable energy, AI, and Gas Hydrates.

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Global Engagement: Speaker at international conferences (e.g., Euro-Mediterranean Environmental Integration).	<ul style="list-style-type: none">• Fluent in multiple languages and certified in AI, web technologies, and security.
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Education

- 1990–1992
 - M.Tech. (Thermal Engineering), Indian Institute of Technology, Delhi.
- 1979–1983
 - B.Sc. Engineering (Mechanical), T.K.M. College of Engineering. (Kerala University)

Employment

- 2023 to Current
 - Senior Director of Skill Development, Digital Bridge International, Hillsinai, Markaz Knowledge City, Calicut, Kerala, India
- 2017– 2023
 - Principal, iREZ Engineers' Academy, Ernakulam, Kollam and Thiruvananthapuram.
- 2012– 2017
 - Professor & HOD, Mechanical Engineering Department, T.K.M. College of Engineering, Kollam, India.
- 2011– 2012
 - Professor & P.G. Coordinator, T.K.M. College of Engineering, Kollam, India.
- 2006– 2011
 - Associate Professor, T.K.M. College of Engineering, Kollam, India.
- 2004– 2006
 - Asst. Professor, T.K.M. College of Engineering, Kollam, India.
- 1997–2004
 - Senior Lecturer, T.K.M. College of Engineering, Kollam, India.
- 1996–1997

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- o Mechanical Engineer(Technical consultant), Saudi Oger Company, Al-Jubail, KSA.
- 1984-1996
 - o Lecturer, T.K.M.College of Engineering, Kollam, India.

ACHIEVEMENTS

1. Senior Hostel Warden from 1997 to 2012.
2. Senior Student Advisor 2008-2012.
3. Post Graduate Coordinator, 2012.
4. Chief, Post Graduate Project Evaluation Committee.
5. University of Kerala Centralised Evaluation Centre, Chief.
6. University of Kerala, Question paper setter, M.Tech. & B.Tech.
7. University of Kerala Revised Scheme & Syllabus Preparation. 2013.
8. Coordinator. M.Tech. Industrial Refrigeration & Air Conditioning stream.
9. Acting HOD, Mechanical Engineering Department, TKMCE, Kollam 2016
10. SAR coordinator, NBA accreditation process TKMCE, 2016.
11. Reviewer for British Journal of Applied Science & Technology
12. Contributor, Journal of Petroleum Engineering, Hindawi
13. HOD, Mechanical Engineering Department, IESCE, Thrissur
14. Coordinator, NAAC Accreditation process, IESCE, Thrissur.
15. HOD, Mechanical Engineering Department, RoyalCET, Thrissur
16. Coordinator, NAAC Accreditation process, RoyalCET, Thrissur
17. HOI & Principal, iREZ Engineers' academy, Ernakulam, Kollam, Thiruvananthapuram
18. Contributor, Journal of Physics, IOP

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19. Reviewer, Geomechanics for Energy and the Environment
20. CEO, Iqsoft Software Consultants, Edappal
21. Senior Director of Skill Development

Subjects Taught

1. Computer Programming and Numerical Techniques.
2. Computer Programming and Applications.
3. Industrial Engineering.
4. Industrial Engineering & Management
5. Applied Thermodynamics.
6. Heat and Mass transfer.
7. History of Science and Technology.
8. Principles of Management.
9. Hydraulic Machines.
10. Fluid Mechanics.
11. Power Plant Engineering.
12. Automobile Engineering.
13. Nuclear Science.
14. Mechanics of Machines.
15. Gas Dynamics.
16. Heat Engineering.
17. New Energy Systems.
18. Industrial Management.
19. Finite Element Method.
20. Refrigeration Systems.
21. Design of Cryogenic Equipments.
22. Cryogenic Engineering.
23. Energy Management.
24. HVAC.
25. Introduction to Mechanical Engineering.
26. Basic Mechanical Engineering.
27. Artificial Intelligence.
28. Robotics.
29. Skill Development.
30. Refrigeration and Air Conditioning.

Guided Innovative Projects Such As

1. Design and Fabrication of a Stirling engine
2. Bottoming cycle engine based on Stirling engine.
3. AutoLISP design of satellite dish at Vikram Sarabhai Space Centre
4. Reverse MHD pump without moving parts
5. Ericsson cycle waste heat utilization system.
6. Computer Aided Design of Liquid Fuel Rocket Nozzle.
7. Development of a Medical Expert system using Fuzzy Logic. (Post Graduate Project)
8. Software to optimize the design parameters of a Stirling cycle(PG Project)
9. Design and Fabrication of a VC Refrigerator. (Post Graduate Project)
10. Software for Design and Drafting of Electrical Motors (Under KEL)
11. Software for Design and Drafting of Gears
12. Magnetically Levitated Vehicle
13. Extraction of Potable Water from Atmosphere.
14. Design and fabrication of Ducted Wind Turbine.
15. Experimental determination of refrigerant hydrate phase diagram(PG Project)
16. Experimental investigation of refrigerant hydrate memory effect(PG Project)
17. Software to optimise extraction of Natural Gas from Hydrated Sediment (PG Project)
18. FEM analysis of railway carriage generator shaft (KEL funded project)
19. Memory Effect of Methane Hydrate Formation(PG Project)
20. Effect of Nano Additives on Methane Hydrate Formation(PG Project)
21. Design & Fabrication of Refrigerant Hydrate Reactor(PG Project)
22. Design & Fabrication of a High Pressure Methane Hydrate Reactor(PG Project)

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23. Impact of Nano Additives on Sequestration of CO₂ as hydrate (PG Project)
24. Driver safety by brain wave sensor.
25. Green roof, Experimental analysis and modelling (PhD Project)
26. Green wall, Experimental analysis and modelling (PhD Project)
27. Mind controlled wheel chair for paraplegics (PG project)
28. Weed clearing robot.
29. Fighting robot (for World Robotics Championship)

Interests & Activities

- • Karate
 1. Brown Belt - ShorinRyu, Sensei Kuppusamy, Tamil Nadu
 2. Black Belt I Dan - International Karate Association, Sensei Rajesh Sharma, Delhi
- • Judo
 1. Orange Belt - (Dojo of Sensei Rajesh Sharma, Delhi)
- • Table Tennis
- • Lawn Tennis
- • Blogging
- • Web Development
- • Programming shareware applications
- • Writing Science fiction
- • Freelance web consultancy
- • Ethical Hacking
- • Entrepreneurship
- • Guiding PhD scholars
- • e-Commerce programming
- • e-Commerce web design and programming.
- • Robotics (Design and Fabrication)
- • Programming AI
- Automation Projects
- Online course instructor at Docsta, Dubai

Technical Papers Published International Journals (4)

S N o	Paper	Author(s)	Journal	Year
1	Dissociation Of Hydrated Marine Sediment	Mohamed Iqbal Pallipurath	Oil and Gas Business Journal http://www.ogbus.ru/eng/authors/Iqbal/Iqbal_1.pdf	2005
2	Dissociation and subsidence of hydrated sediment: coupled models	Mohamed Iqbal Pallipurath	Energy, Exploration & Exploitation Volume 27, Number 2 https://multi-science.metapress.com/content/b57267481vm30056/?p=5ee8cb162d584d85b60704b48a97f2de&pi=1 Dissociation and Subsidence of Hydrated Sediment: Coupled Models (sagepub.com) https://journals.sagepub.com/doi/pdf/10.1260/0144-5987.27.2.105	April 2009
3	Effect of Bed Deformation on Natural Gas Production from Hydrates	Mohamed Iqbal Pallipurath	http://www.hindawi.com/journals/jpe/2013/942597/ https://onlinelibrary.wiley.com/doi/10.1155/2013/942597 Journal of Petroleum Engineering, vol. 2013, Article ID 942597, 9 pages, 2013. doi:10.1155/2013/942597	May 2013
4	Memory Effect in Methane Hydrate Formation	Mohamed Iqbal Pallipurath, Nandakishore Nagarajan and Yahiya Vahid	Published under licence by IOP Publishing Ltd. Journal of Physics: Conference Series, Volume 1355, Number 1 https://iopscience.iop.org/article/10.1088/1742-6596/1355/1/012007 2019 J. Phys.: Conf. Ser. 1355 012007 https://doi.org/10.1088/1742-6596/1355/1/012007	2019

International Conferences (10)

S N o	Paper	Author(s)	Conference	Year
1	Modelling Hydrate Dissociation in a Collapsing Packed Bed	Mohamed Iqbal Pallipurath	International Conference on Cryogenics and Refrigeration ICCR 2008, Shanghai, China. https://cpfd.cnki.com.cn/Article/CPFDTOTAL-ZGZM200804001178.htm	2008
2	Gas Transport as Hydrate	Mohamed Iqbal Pallipurath	International Petroleum Technology Conference, Kuala Lumpur, Malaysia https://doi.org/10.3997/2214-4609-pdb.148.iptc12402 Gas Transport as Hydrate Earthdoc https://www.earthdoc.org/content/papers/10.3997/2214-4609-pdb.148.iptc12402	3-5 Dec 2008
3	Subsidence of Dissociating Gas Hydrate	Mohamed Iqbal Pallipurath	International Conference in Mechanical Engineering, ICRAME2010	2010
4	Effect of sediment type on natural gas production from hydrates	Mohamed Iqbal Pallipurath	https://www.scopus.com/inward/record.uri?partnerID=HzOxMe3b&scp=84905722054&origin=inward Proceedings of the Annual Offshore Technology Conference Volume 2, 2014, Pages 897-912 Offshore Technology Conference Asia: Meeting the Challenges for Asia's Growth, OTC ASIA 2014; Kuala Lumpur; Malaysia; 25 March 2014 through 28 March 2014; Code 106749 ISSN: 01603663 ISBN: 978-163266387-0 CODEN: OSTCB	2014
5	Experimental Investigation on the Effect of bio-additives on Refrigerant Hydrate Formation	Mohamed Iqbal Pallipurath, Yaseer M., Abdul Azeez P. A.	International Conference On Aerospace And Mechanical Engineering 2015, ISBN(13):978-93-85965-16-6	2015

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6	Experimental Study of the Effects of Surfactants on Formation of Refrigerant Hydrates	Mohamed Iqbal Pallipurath, Yaseer M., Abdul Azeez P. A.	International Conference On Aerospace And Mechanical Engineering 2015, ISBN(13):978-93-85965-16-6	2015
7	Memory Effect in Methane Hydrate Formation	Mohamed Iqbal Pallipurath, Nandakishore Nagarajan, Yahiya Vahid	http://icame.in/ International Conference on Aerospace & Mechanical Engineering 2018	17-19 Dec 2018
8	Hydrate Process for Land Transport of Natural Gas	Mohamed Iqbal Pallipurath , Abdussalam Muhammed, Nisam Rahman A	First Conference on Renewable and Sustainable Energy 2023 Almaaqaal University, Basrah, Iraq	Feb 2024
9	AI Integrated Sustainable City Management System Adopted In Markaz Knowledge City: An Innovative Approach.	Nisam Rahman A, Abdul Salam Mohammed, Mohamed Iqbal Pallipurath, Muhammed Nasim	First Conference on Renewable and Sustainable Energy 2023 Almaaqaal University, Basrah, Iraq	Feb 2024
10	Integrated Sustainable Energy Management System Adopted In Markaz Knowledge City: An Innovative Approach	Abdussalam Muhammed, Nisam Rahman A, Mohamed Iqbal Pallipurath	First Conference on Renewable and Sustainable Energy 2023 Almaaqaal University, Basrah, Iraq	Feb 2024

National Conferences (6)

S No	Paper	Author (s)	Conference	Year
1	One Dimensional model of Gas Hydrate Dissociation in Porous Sediments	Mohamed Iqbal Pallipurath	National Conference on Advances in Heat Transfer and Fluid Dynamics	16-17, Sep 2006
2	Dissociation of Gas Hydrate in Porous Sediments	Mohamed Iqbal Pallipurath	Advanced Heat Transfer and Fluid Dynamics-2006 conference	2006
3	Modelling Hydrate Dissociation in a Collapsing Packed Bed	Mohamed Iqbal Pallipurath	19th National and 8th ASME-ISHMT Conference	2007
4	Hydrate Process for Land Transport of Natural Gas in India- A Feasibility Study	Mohamed Iqbal Pallipurath	National Conference on Space Technology	2010
5	Land Transport of Natural Gas in India	Mohamed Iqbal Pallipurath	NCAME10	2010
6	Gas Hydrates: Oil Pipeline of the Future	Mohamed Iqbal Pallipurath	IORS 2011	8-9 Sep 2011

Short Terms Courses and Seminars

- "Contributions to Technology from Space Research" in association with Vikram Sarabhai Space Centre, at TKM College of Engineering in November 2-13, 1998
- "Recent Numerical Techniques to solve Engineering Problems" From 22nd May 2000 to 3rd June 2000 under sponsorship of AICTE and ISTE at Regional Engineering College Calicut.
- "IT enabled supply chain management" from 28th October to 10th November 2001 under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.
- "Ergonomics in Design" under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.
- "Experimental Methods and Laboratory Practices for Mechanical Engineers under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.
- "International Conference on Recent Advances in Mechanical Engineering" under sponsorship of ISRO at Noorul Islam University, Kumaracoil on 8-9 April 2010.
- Faculty Development Programme On Advances In Design Optimization. Govt. Engineering College, Kozhikode, Department Of Mechanical Engg. 18-23 March, 2013
- Main Speaker at "Innovative Practices in Teaching", AISAT Kochi September 19, 2022
- Chief Resource Person at "Reshaping Teaching Learning Process for the Digital Era" at CCET Alappuzha, January 30, 2023.
- Chief Resource Person at "Innovative Teaching Techniques" at Digital Bridge International, Hillsinai, Markaz Knowledge City, June 20, 2023.

Computer Skills

Programming Languages:

- PHP
- MySQL
- ASP
- MSSQL
- postgresSQL
- VB6
- VB.Net
- C
- C++
- Java, J2ME
- HTML5
- XML
- LISP
- AutoLISP
- VBScript,
- Java Script
- Python
- Android

Web design and programming platforms (CMS):

- Drupal
- Joomla
- Wordpress
- Laravel

Operating systems:

- · OS2 Warp Connect
- · Windows XP/Vista/7/8/8.1/10
- · Linux (Slackware, Mandriva, Suse, Debian/Ubuntu/Kubuntu/Ubuntu/Mint, Fedora)
- · MacOS/iOS
- · NetWare.
- . Android

Hardware:

x86, x64, Android and Mac.

Software:

Wordpress, Joomla, Drupal, Magento, MS Office / Office 365 / Open Office / LibreOffice, phpMyAdmin, AutoCAD, MATLAB, FLUENT, ANSYS, IDEAS, NISA, ABAQUS, DesignBuilder.

Shareware and Commercial Software Authored:

1. Patint (Windows, Unix)- for creating fractal patterns, Maths in Nature
2. Graf -Scientific Graphing
3. Virasath (Windows)- for calculating legacy
4. MedExpert (Windows) Biochemical Analysis of Blood (Expert System)
5. Hisab (Windows) -Custom developed financial software
6. Helios (Windows) -Custom developed Industrial software
7. Water Billing (Windows)-Custom developed financial software for Kerala Government (Kerala Water Authority-KWA)
8. Petrol Pump (Filling Station) Management Solution for overseas client
9. Stirling Machine Optimization Project developed as a part of a technical paper
10. Security- A password protection system for Windows
11. Joysurf- An Internet cafe user management accounting system
12. NetBiz-A Network Business management system (MLM). Internet enabled with FTP, Web Site management, Client tree view and instant client data retrieval facility
13. Academician- An academic management solution
14. Edubase- Educational software

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15. SimHydrate- A gas hydrate formation/dissociation simulation program
16. Stegger- Steganography software
17. Cargo- Import/Export management
18. ComSales- Commission sales solution
19. Decrypt- Encrypting/Decrypting software
20. Ganymede-School Management
21. Hostel- Hostel Management Solution
22. IQStream- Video streaming to website
23. IQVidcap- Video capture
24. MakeSerial- Serial key creator
25. Salat- Time Management
26. ShopRite- POS Solution
27. SiteUpdate- VB.Net solution to auto update websites

Recently Created Websites

1. <https://pallipurath.in>
2. <https://iqsoft.in>
3. <https://mohamediqbal.in/>
4. <https://truecarehospital.in>
5. <https://bookaride.in>

Certifications and Tests

Brainbench and Other Certifications

Name:

Date:

Authority:



2017-01-19 Brainbench

Name:

Amazon Web
Services

Score:

2.97

Date:

2017-01-19

View detailed topic results at

Scored higher than 71% of all previous test takers.

Demonstrates a solid understanding of core concepts within this topic. Appears capable of working on most projects in

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this area with moderate assistance.

Strengths

Databases

Score: 3.95 **Date:** 2012-03-20

Name: [Internet Technology Fundamentals](#)

View detailed topic results at

http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt

Scored higher than **89%** of all previous test takers.

Demonstrates a clear understanding of many advanced concepts within this topic. Appears capable of mentoring others on most projects in this area.

Strengths

Server Configuration and Technologies

Architecture and Networking

Client-Server Configuration

Name: [HTML5](#)

Score: 3.40 **Date:** 2012-03-09
/5

View detailed topic results at

http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt

Scored higher than **77%** of all previous test takers.

Demonstrates a solid understanding of core concepts within this topic.

Appears capable of working on most projects in this area with moderate assistance.

Strengths

Data Elements

Tags

Name: [Web Design Concepts](#)

Score: 4.01 **Date:** 2012-03-09

View detailed topic results at

http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt

Scored higher than **94%** of all previous test takers.

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Demonstrates a clear understanding of many advanced concepts within this topic. Appears capable of mentoring others on most projects in this area.

Strengths

Web Analytics
HTML Knowledge
DOM Scripting (Javascript)
SEO (Search Engine Optimization)
Accessibility
CSS Knowledge

Name: Written English

Score: 3.83 **Date:** 2012-03-09

View detailed topic results at

http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt

Scored higher than **91%** of all previous test takers.

Overall Score

3.84

Demonstrated the ability to read, comprehend, and communicate English at an advanced level.

Performed well in both the categories of Reading Comprehension and Grammar and Usage.

The examinee's English skills are above the average of all others who have taken this same test.

The examinee will have little to no problem communicating in English in his/her desired position.

Grammar & Usage Score

4.11

Demonstrated knowledge of English Grammar and Usage at an advanced level.

Generally performed well in the proper use of nouns, verbs, pronouns, misused words, prepositions, articles, parallel structure, comparison, and conjunctions in sentences.

The examinee's Grammar and Usage skills are above the average of those who have taken this same test.

Strong Areas

Articles
Comparisons
Misused Words
Nouns
Parallel Structure
Pronouns
Verbs

Reading Comprehension Score

3.57

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Demonstrated the ability to read and comprehend English passages at an advanced level.

Reading Comprehension skills are above the average of those who have taken this same test.

Strong Areas

General Questions

Specific Questions

Weak Areas

None Noted

Name: Internet Security

Score: 4.03 **Date:** 2012-03-09

View detailed topic results at

http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt

Scored higher than **86%** of all previous test takers.

Demonstrates a clear understanding of many advanced concepts within this topic. Appears capable of mentoring others on most projects in this area.

Strengths

Malicious Programs

Identity and Access Management

Threats

Network Devices and Services

Electronic Mail

ODesk (Upwork.com) Tests and Certifications

Verify at <https://www.upwork.com/freelancers/~01c830755f2394a4dc>

PHP programming 98

Web design 95

American English 99

British English 100

MS Office 85

Dreamweaver 80

Photoshop 75

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Languages

Most fluent in

1.English

Other languages:

2.Arabic

3.Urdu

4.Hindi

5.Malayalam

6.Tamil (Speak only)

7.Sanskrit

8.Persian

9.Bengali (Speak only)

References :

Provided on request

Personal

Address: SHAAZ, Vattamkulam P.O., Edappal, Kerala 679578

Personality

Original and Creative. Extrovert.

Articulate; with remarkable communication skills.

Problem solver, adaptable.

Multifaceted skill set, Team worker.

Motivational speaker