

# Mohamed Iqbal Pallipurath

## Home Address:

SHAAZ, Vattamkulam P.O., Edappal,

Kerala 679578

## Office Address:

Principal,iREZEngineers' Academy,

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Deshabhimani Road

Kaloor, Cochin,682017

Kerala, India

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## ORCID ID

<https://orcid.org/0000-0002-3301-1043>



Facebook: 

[fb.com/iqsoft](https://fb.com/iqsoft)

Twitter: 

[twitter.com/mohamediqbalp](https://twitter.com/mohamediqbalp)

LinkedIn:  <https://in.linkedin.com/in/mohamediqbalp>

## **Web Sites**

<http://www.iqsoft.co.in>

<http://www.mohamediqbal.com>

<http://mohamediqbal.in>

<http://keralaweb.in>

<http://pallipurath.in>

## **Blogs**

<http://www.mohamediqbalp.blogspot.com>

<http://www.mohamediqbalp.wordpress.com>

<http://blog.iqsoft.co.in>

<https://iqsoft.livejournal.com/>

## **Personal**

Original and Creative. Extrovert.

Articulate; with remarkable communication skills.

Problem solver, adaptable.

Multifaceted skill set.

## Education

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

## Employment

- *1984-1996*
  - Lecturer, T.K.M.College of Engineering, Kollam, India.
- *1996-1997*
  - Mechanical Engineer(Technical consultant), Saudi Oger Company, Al-Jubail, KSA.
- *1997-2004*
  - Senior Lecturer, T.K.M. College of Engineering, Kollam, India.
- *2005- 2006*
  - Asst. Professor, T.K.M. College of Engineering, Kollam, India.
- *2006- 2011*
  - Associate Professor, T.K.M. College of Engineering, Kollam, India.
- *2011- 2012*
  - Professor & P.G. Coordinator, T.K.M. College of Engineering, Kollam, India.
- *2012- 2017*
  - Professor, Mechanical Engineering Department, T.K.M. College of Engineering, Kollam, India.
- *2017-2018*

- Professor & HOD, Mechanical Engineering Department, I.E.S. College of Engineering, Thrissur, India.
- 2018
  - Professor & HOD, Mechanical Engineering Department, Royal College of Engineering, Thrissur, India
- 2019
  - Principal, iREZ Engineers' Academy, Ernakulam, Kollam and Thiruvananthapuram.

## **Responsibilities**

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 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. HOD, Mechanical Engineering Department, RoyalCET, Thrissur
15. Coordinator, NAAC Accreditation process, RoyalCET, Thrissur
16. HOI & Principal iREZ Engineers' academy, Ernakulam, Kollam, Thiruvananthapuram

17. Contributor, Journal of Physics, IOP
18. Reviewer, Geomechanics for Energy and the Environment

### **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

### **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)
23. Impact of Nano Additives on Sequestration of CO<sub>2</sub> as hydrate (PG Project)
24. Driver safety by brain wave sensor.
25. Design and fabrication of a mind controlled wheelchair (PG Project)
26. Green roof, Experimental analysis and modelling (PhD Project)

## **Interests & Activities**

- · Karate
  1. Brown Belt - ShorinRyu, Sensei Kuppussamy, Tamil Nadu
  2. Black Belt I Dan - International Karate Association, Sensei Rajesh Sharma, Delhi
- · Judo (Orange Belt-Dojo of Sensei Rajesh Sharma, Delhi)
- · Table Tennis
- · Lawn Tennis
- · Blogging
- · Web Development
- · Programming shareware applications
- · Writing Science fiction
- Writing, Other
- · Freelance web consultancy
- · Ethical Hacking

## Technical Papers Published

### International Journals (4)

S No	Paper	Author(s)	Journal	Year
1	Dissociation Of Hydrated Marine Sediment	Mohamed Iqbal Pallipurath	Oil and Gas Business Journal <a href="http://www.ogbus.ru/eng/authors/Iqbal/Iqbal_1.pdf">http://www.ogbus.ru/eng/authors/Iqbal/Iqbal_1.pdf</a>	2005
2	Dissociation and subsidence of hydrated sediment: coupled models	Mohamed Iqbal Pallipurath	Energy, Exploration & Exploitation Volume 27, Number 2 <a href="http://multi-science.metapress.com/content/b57267481vm30056/?p=5ee8cb162d584d85b60704b48a97f2de&amp;pi=1">http://multi-science.metapress.com/content/b57267481vm30056/?p=5ee8cb162d584d85b60704b48a97f2de&amp;pi=1</a>  <b>Dissociation and Subsidence of Hydrated Sediment: Coupled Models (sagepub.com)</b>  <a href="https://journals.sagepub.com/doi/pdf/10.1260/0144-5987.27.2.105">https://journals.sagepub.com/doi/pdf/10.1260/0144-5987.27.2.105</a>	April 2009
3	Effect of Bed Deformation on Natural Gas Production	Mohamed Iqbal Pallipurath	<a href="http://www.hindawi.com/journals/jpe/2013/942597/">http://www.hindawi.com/journals/jpe/2013/942597/</a>  Journal of Petroleum Engineering, vol. 2013, Article ID 942597, 9 pages, 2013. doi:10.1155/2013/942597	May 2013



	from Hydrates			
4	Memory Effect in Methane Hydrate Formation	Mohamed Iqbal Pallipurath, NandakishoreNagarajan and Yahiya Vahid	Published under licence by IOP Publishing Ltd  Journal of Physics: Conference Series, Volume 1355, Number 1  <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1355/1/012007">https://iopscience.iop.org/article/10.1088/1742-6596/1355/1/012007</a>  2019 J. Phys.: Conf. Ser. 1355 012007  <a href="https://doi.org/10.1088/1742-6596/1355/1/012007">https://doi.org/10.1088/1742-6596/1355/1/012007</a>	2019

#### International Conferences (7)

S No	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. <a href="http://cpfd.cnki.com.cn/Article/CPFDTOTAL-ZGZM200804001178.htm">http://cpfd.cnki.com.cn/Article/CPFDTOTAL-ZGZM200804001178.htm</a>	2008
2	Gas Transport as Hydrate	Mohamed Iqbal	International Petroleum Technology Conference,	3-5

		Pallipurath	<p>Kuala Lumpur, Malaysia</p> <p><a href="https://doi.org/10.3997/2214-4609-pdb.148.iptc12402">https://doi.org/10.3997/2214-4609-pdb.148.iptc12402</a></p> <p><b>Gas Transport as Hydrate   Earthdoc</b></p> <p><a href="https://www.earthdoc.org/content/papers/10.3997/2214-4609-pdb.148.iptc12402">https://www.earthdoc.org/content/papers/10.3997/2214-4609-pdb.148.iptc12402</a></p>	Dec 2008
3	Subsidence of Dissociating Gas Hydrate	Mohamed Iqbal Pallipurath	International Conference in Mechanical Engineering, ICROME2010	2010
4	Effect of sediment type on natural gas production from hydrates	Mohamed Iqbal Pallipurath	<p><a href="https://www.scopus.com/inward/record.uri?partnerID=HzOxMe3b&amp;scp=84905722054&amp;origin=inward">https://www.scopus.com/inward/record.uri?partnerID=HzOxMe3b&amp;scp=84905722054&amp;origin=inward</a></p> <p>Proceedings of the Annual Offshore Technology Conference</p> <p>Volume 2, 2014, Pages 897-912</p> <p>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</p> <p>ISSN: 01603663</p> <p>ISBN: 978-163266387-0</p> <p>CODEN: OSTCB</p>	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
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, NandakishoreNag arajan, Yahiya Vahid	<a href="http://icame.in/">http://icame.in/</a> International Conference on Aerospace & Mechanical Engineering 2018	17-19 Dec 2018

#### 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	Modeling 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

1. "Contributions to Technology from Space Research" in association with Vikram Sarabhai Space Centre, at TKM College of Engineering in November 2-13, 1998
2. "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.
3. "IT enabled supply chain management" from 28th October to 10th November 2001 under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.

4. "Ergonomics in Design" under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.
5. "Experimental Methods and Laboratory Practices for Mechanical Engineers under sponsorship of AICTE and ISTE at TKM College of Engineering, Kollam.
6. "International Conference on Recent Advances in Mechanical Engineering" under sponsorship of ISRO at Noorul Islam University, Kumaracoil on 8-9 April 2010.
7. Faculty Development Programme On Advances In Design Optimization. Govt. Engineering College, Kozhikode, Department Of Mechanical Engg. 18-23 March, 2013

## **Computer Skills**

### **Languages:**

- PHP
- MySQL
- ASP
- MSSQL
- VB6
- VB.Net
- c
- c++
- Java, J2ME
- VB6
- HTML5
- XML

- LISP
- AutoLISP
- VBScript,
- Java Script
- Python

#### **Web design platforms (CMS):**

- Drupal
- Joomla
- Wordpress

#### **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, Android and Mac.

#### **Software:**

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

## **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
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. <http://www.iqsoft.co.in>
2. <https://fathimahomoeo.com>
3. <http://pallipurath.in>
4. <https://keralawebdesigner.in>
5. <http://pristinesteel.com>
6. <https://globaltrans.co.in>
7. <https://mayoz.pallipurath.in>
8. <https://alif.pallipurath.in>
9. <https://shana.pallipurath.in>
10. <https://sahal.pallipurath.in>
11. <https://spyeye.pallipurath.in>

### **Certifications and Tests**








#### **Brainbench and Other Certifications**

**Name:**

**Date:**

**Authority:**



	<b>M A S T E R</b> Internet Security	2012-03-09	Brainbench
	Written English	2012-03-09	Brainbench
	<b>M A S T E R</b> Web Design Concepts	2012-03-09	Brainbench
	HTML5	2012-03-09	Brainbench
	Internet Technology Fundamentals	2012-03-20	Brainbench
	Internet Technology Fundamentals	2012-03-20	Brainbench
	Amazon Web Services	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 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](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:** Internet Technology Fundamentals **Score:** 3.79/5 **Date:** 2012-03-20

View detailed topic results at

[http://www.brainbench.com/xml/bb/transcript/transcript.xml?user\\_info\\_saved=true#ttt](http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt)

Scored higher than **83%** 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**

Internet Standards and Terminology

Server Configuration and Technologies

## Client-Server Configuration

Internet Configuration, Connection, and Troubleshooting

**Name:** HTML5

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

View detailed topic results at

[http://www.brainbench.com/xml/bb/transcript/transcript.xml?user\\_info\\_saved=true#ttt](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](http://www.brainbench.com/xml/bb/transcript/transcript.xml?user_info_saved=true#ttt)

Scored higher than **94%** 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

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](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.

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**4.11**

**Grammar & Usage Score**

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

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**3.57**

**Reading Comprehension Score**

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](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

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## ODesk Tests and Certifications

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

10 empty rectangular boxes stacked vertically, likely for a list or data entry.

## IQ Evaluations



## Languages

Most fluent in

1. English

Other languages:

2. Arabic
3. Urdu
4. Hindi
5. Malayalam
6. Tamil
7. Sanskrit
8. Persian
9. Bengali

**References:**

Provided on request