

**Dr. Mallika**

**M.Sc, B.Ed, M. Phil, P.hd.,**

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***Professional Synopsis***

I am seeking for the better position in MATHEMATICS to utilize my skills and professional Expertise in the vast area of teaching in different University/College levels. I have been working as a MATH FACULTY for the past 23 YEARS.

* About 23 years of rich experience in Teaching Math, Educational Assessment, Classroom Presentation, Student Relations and General Administration.
* A dedicated, resourceful and innovative Lecturer, who strives to help students change marginal grades into good grades, supports colleagues and administration in facilitating intellectual growth by creating an atmosphere and problem solving.
* Experience of facilitating / coaching students by using interactive discussions and hands-on-approach to help students learn and apply concepts in subjects.
* Experienced in working in an online / e-learning environment and focusing on Student Centered Learning.
* A thorough professional with a proactive attitude, capable of thinking in & out of the box.
* Exceptional communication, presentation and mentoring skills.
* Ready to perform administrative duties as needed

***Objective:***

Seeking for a better position in MATHEMATICSto utilize my skills and professional Expertise in the vast area of teaching in different University/College levels.

***Professional Experience***

1. Position: **Head of Section (Math Department) SCT,Oman**

**<Salalah College of Technology >, <Salalah, Oman>, From**01/09/ 2008-Till date**, From** 1st Sept 2013 – Till Date

Teaching Math courses for Engg, IT & Business students in all Level (Diploma & Higher Diploma & Bachelors)

Papers Handled: Engineering Mathematics and Calculus I& II, Quantitative Techniques in Management & Engineering Statistics.

1. Position : **Sr.Lecturer in Mathematics**

<**Birla Institute of Technology, Inter National Centre>, <Ras Al Khaimah, UAE>,**From 01/09/2005 to 21/08/2008

TaughtMATH1001 (Mathematics for Engineering); MATH 1002(Mathematics for Architecture) Calculus, trigonometry, Matrices, Differential equation, Statics and Dynamics (Integrated Engineering) Quantitative Techniques in Management 603 (MBA &EMBA) Operation Research (BBA&MBA)

1. **Part time Lecturer in Wisdom Educational** Institute**><Dubai, UAE>,** from 10/4/2014 to 21/08/2008

Handled ITMathematics, Egg Mathematics, Business Mathematics for Sikkim Manipaluniversity, Madurai University &Ignou open University.

1. Position : **Math teacher**

< **Indian High school**>, <**, Dubai, UAE**>,From 10/04/2004 to 30/08/2005

1. Position : **Sr.Lecturer in Mathematics**

< **SNPT TECHNICAL COLLEGE** >, < **INDIA**>, From 05/08/1994 to 29/09/2003

Taught all Math courses.

**Educational Qualification**

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| --- | --- | --- | --- |
| **Degree Awarded** | **Specialization** | **University** | **Date of Completion (Month & Year)** |
| PhD | Applied Mathematics | Madurai Kamaraj University | February- 2013 |
| Masters(M.Phil.& M.Sc..) | Mathematics | M.Phil., -Madurai Kamaraj UniversityM.Sc. – Madras University | May - 2003April- 1993 |
| Bachelors (B.SC.,B.Ed.,) | Mathematics | B.Sc., - Madras UniversityB.Ed., - Madurai University | April- 1991April -2001 |

**TEACHING PHILOSOPHY:**

Since 1994, I have constantly involved in teaching, and enjoyed the extensive support and appreciation of my students and colleagues. The courses I taught were Differential Calculus, Integral Calculus,Differential Equation, Complex Numbers, Discrete Mathematics, Scientific Computing (Numerical methods), Partial Derivatives,Analytical Trigonometry and Matrix Algebra. (Engg Mathematics &Mathematics for Architecture) Quantitative techniques in Management, Operation Research ( BBA&MBA)

My philosophy of teaching evolved from many years of teaching experience. As I reflect on my beliefs regarding teaching and learning, I find that my mission as a Lecturer is threefold:

* to promote positive learning;
* to spark learner enthusiasm for learning;
* and to provide a strong foundation for lifelong learning.

To accomplish this, I enjoy applying a wide variety of strategies based on essential educational principles encompassing cognitive functioning, learning theory, diversity issues, instructional planning and assessment based on Student Centered Learning.

I routinely plan activities, such as Group discussion, Project work presentation, Online Quizzes,…. that can help me determine the cognitive levels of my students and tailor my instruction accordingly.

I plan and implement lessons that clearly identify the lesson objective, strategies for effective student engagement, and assessment options to measure student mastery. This helps me teach with both clarity and focus.

Following these basic principles helped me grow in my love for teaching and learning. More importantly, I have discovered that, by sharing my ‘passion’ for teaching and learning, there by using these principles with enthusiasm and empathy connects with learners. As a result, teaching with clarity, passion, empathy, and sincere enthusiasm, effectively impacts learners, ultimately connecting them to their ‘passion’ and lifelong learning.

**Strength :**

* Effective Planning ,Implementation and Execution along with further follow up with students.
* Timely submission of all reports (Students Course material, Internal marks, attendance, Question Bank ,Question papers& Answer papers)
* Complete preparation before going to the class and able to use the technology to focus on Student Centered Learning.
* In depth focus on subjects during lectures to the students .
* I welcome students to clarify their doubts any time within the campus.
* Completing the syllabus on time, and revising the syllabus before exam.
* Careful consideration , focus and counseling given to the low profile students.
* Can be flexible with students and able to organize students programs to motivate them in studies.
* Can work in online/e-learning to focus on Student Centered Learning ( Used Moodle and Math apps to conduct on line activity for students).

**Achievements in academics:**

* Excellent feedback from the students of both IT & ENGG
* Not a single day leave taken during the current and previous academic sessions.
* Active participation during college program and other activities.
* Good feed back , active support and appreciation given to me by HOD

of Mathematics as well from other HOS & HOD of IT& Engineering departments.

**Computer Profiency:**

Msword, Ms Excel, Power point presentation, SPSS, Mat Lab**,** ICDL certified.

* **Life Member of Indian Society of Technical Education**
* Student Co-ordinator in Birla Institute of Technology in 2007-2008.
* Other than teaching, actively involved in committee works in Salalah college of Technology. (1)Curriculum Review and Development committee Chairman in 2011-2012 &2012-2013. (2) Moderation committee in 2010-2011. (3) Examination Committee in 2012-2013 &2013-2014.
* Organized One day International Seminar on “Role of Mathematics in the development of Society and Technology –ROMIST -2015 ” on 19th March -2015 .
* Organized Math Expo-2015 as a part of student development to improve their skills on 18th&19th March 2015.
* Successfully organized and conducted for the first time the **–‘Pi Day’ celebration & Knowledge sharing work shop** on 17th April 2016, from 9.30 AM to 2.30 PM at SAC Room (Foundation Building) . This is to remember the importance of ‘Pi’ in everyday life and Interact with, and learn from participants of mixed and rich professional and organizational background.

**Achievement as a HOS:**

IN SCT (Salalah College of Technology,Salalah,Oman ) as ,Head of Math Section from 2013 till date….

* I have pioneered in setting up of Math Help Centre for the benefit of the students in Sep -2013 .

Functions of Math Help Center:

Peer teaching & Remedial Classes which has stream lined as a regular activity.

* **C**onducted Math Quiz Contest & Poster presentation contest to enhance the student knowledge through an activity.

<https://www.sct.edu.om/web/index.php/news-events/news/information-technology-news/item/377-sct-mathematics-talent-search-contest-2015-16>

* As a part of Professional development of faculties , Organized “ Math work shop” on ‘Latex’ for the Professionals and Research Scholars.
* Organized One day International Seminar on “Role of Mathematics in the development of Society and Technology –ROMIST -2015 ” on 19th March -2015 .

 [http://omanobserver.om/scts-maths-expo-romist-2015-excite-students/](http://www.google.com/url?q=http%3A%2F%2Fomanobserver.om%2Fscts-maths-expo-romist-2015-excite-students%2F&sa=D&sntz=1&usg=AFQjCNHE8Fk8YaMWiaN97OMTDCd-lROIpw)

* Organized Math Expo-2015 with students projects for the students to improve their skills on 18th&19th March 2015 in SCT.
* Organized a **“SCT MATH TALENT SEARCH CONTEST 2015-16”** for the benefit of students which was held on 1stDecember , 2015, 12:00 hrs at SAC Room –Math help center of Foundation building.
* Conducted MATH WORK SHOP on “**SCI LAB”** for the benefit of all research scholars, professionals & students which was held on 17th November 2015 at 12:00 hrs -2 .00 hrs in IT Lab 6 - IT building.
* Conducted MATH WORKSHOP on **“MATHEMATICA”** as a part of Professional Development Program for the benefit of all research scholars, professionals & students which was held on 2nd & 9th February 2016 at 12.00pm - 2.00pm in IT Lab 6 - IT building.
* Successfully organized and conducted for the first time the **–‘Pi Day’ celebration & Knowledge sharing work shop** on 17th April 2016.

<https://www.sct.edu.om/web/index.php/news-events/news/information-technology-news/item/452-pi-day-celebrations-knowledge-sharing-workshop-in-sct>

 Pi-Day” celebration and knowledge sharing workshop published in Oman Observer.

<http://omanobserver.om/pi-day-celebration-excites-sct/>

* “Pi Day- 2017” celebration was organized with student’s projects display on 21st March 2017 in Multipurpose Hall , SCT.
* Organized and conducted Work shop on "Integrating Technology on Student Centered Learning" on 24th January 2017 in Multipurpose Hall, SCT.
* Organized Oman Math Day celebration with MATH FAIR(Theme is Application and History of Mathematics) for students and MATH FORUM for faculties on 23rd November2017 in MPH, SCT.

**Research & Publications**

Research area - Operation Research. Inventory Control using Fuzzy Logic & Optimization. Also interested in the area of Fuzzy Neural Network, Automata theory.

* **Fuzzy Rule Based Model for Perishable Collection Production Inventory System**.(Received 1stsept 2010,Revised 15thDece 2010,Accepted 11th Jan 2011) ISSN 1750-9653 england, UK. 6(3):183-190,2011. International Journal of management Science and Engineering management (published)
* **Possibility and necessity constraints for the perishable Inventory system in Two warehouse Problems** .International Journal of management Science and Engineering management (Communicated)
* **Perishable Inventory control in Two Echelon Supply chain Using Fuzzy Expert System**. International Journal of management Science and Engineering management (Communicated)
* Attended two day workshop on Advance Technologies for sustainable Environment (BIT-2006)
* Presented the paper on “Application of Mathematics- Math Matters for Development” in the seminar conducted by BIT in July 2008
* Participated in a Faculty development Program on How to publish Research Papers in Journals.
* Attended one day Math workshop on delivering the lecture &Assesment in Muscat HCT -2011
* Attended the workshop on Best practices in teaching and Learning ,Writing Learning Objectives and Test Construction in Higher College of Technology on 25th May 2011.
* Attended the seminar on “Cyber Security Convention” in Salalah College of Technology held on 5th March 2012.
* Attended the workshop on “Table of Specifications” in Higher College of Technology on 26th Sep 2013.
* Organized and presented the paper in One day international workshop “ROMIST- Role of mathematics in the Development of Society and Technology” in Salalah College of Technology on 20th March 2015.
* Attended and one of the Reviewer of the students project in the Chem Symposium-2015 On Current Perspectives and challenges in Chemical Engineering and Technologies held in Crown Plaza Resort, Salalah on 14th May 2015.
* Attended the seminar on “The future Internet: Its Implication to Social Networking , Security and Privacy” held in Salalah Rotana Resort, Salalah on 25th May 2015.
* Organized and Presented the paper on "Knowledge sharing workshop" during Pi day celebration held in Salalah College of Technology on 17th April 2016.
* Organized the workshop on " Integrating Technology with Students Centered Learning" on 24th January 2017.

**Certifications and Awards**

* Received **Dean’s Award** on staff recognition Day in the Academic year 2015.

**Personal Profile**

NATIONALITY: INDIAN

SEX: FEMALE

MARITAL STATUS: MARRIED

DATE OF BIRTH: 04 – 11 – 69