

RESUME

Name NASEEM A KHAN
Date of Birth 10th March, 1963
Department Department of Chemical Engineering
Designation Associate Professor
Father's Name Late Qamruddin Khan
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Jamalpur, ALIGARH, U.P
Religion Islam
Nationality Indian
Date of 1st continuous appointment September 2, 1986



Academic Qualifications:

Examination Passed	Name of Univ./Board	Subject	Year of passing	Division/ % of Marks
High School	UPB	Math, Science, Bio., English ,Hindi	1977	1 st , 62.2 Distinction in Math
PUC	A.M.U.	English, Math, Physics and Chemistry	1978	1 st , 74.7 Distinction in Math, Physics
B.Sc. Engineering	A.M.U	Chemical	1984	1 st , 84.03 , 2 nd Position
M. Tech.	A.M.U	Computer Sc. and Technology	2006	1 st , 78.4

Topic of M. Tech Dissertation: CAD of Shell and Tube Heat Exchanger

Topic of M. Tech Project: Graph Theory and its application in Chemical Engineering

Ph.D. (Pursuing) Hydrodynamics and Heat Transfer Studies in Thermosiphon Reboiler

Administrative Responsibilities:

1. Chairperson Department of Chemical Engineering since April 04, 2018
2. Director Centre for Promotion of Science

Supervision at P. G. level:

Supervised/Supervising M. Tech students on following topics for their Dissertation

1. Abu Mustafa Khan , Design and Simulation of Compact Heat Exchanger
2. W R Azmi., Modeling and Simulation of Plate Heat Exchanger
3. Nihan Siddiqui, Design and Simulation of Cyclone Separator
4. Faizan Ahmad, Optimum Design of Multiple Effect Evaporator
5. Avnish Kumar Somvanshi, Simulation of Synthesis Gas Production Using Aspen Plus
6. Karan Pal , CAD of Distillation Column
7. Aamir Khursheed, Design and Simulation of Packed Absorption Column Using MS-Excel
8. Aadil Hashim Saifi, Design and Simulation of Plate and Frame Heat Exchanger
9. Shahanshah Ahmad ,Comparative Study of Various Adsorption Models Using MS Excel

Supervision at U.G. level:

Some Selected B.Tech Projects;

1. To Develop a Program for Data Base Management System
2. Design and Fabrication of Experimental Set up for the Extraction of Essential Oil
3. Design and Fabrication of Experimental Setup to determine Flammability Limit
4. Computer Aided Design of Triple Effect Evaporator
5. Computer Aided Design of Sedimentation Tank.
6. Computer Aided Design of Shell and Tube Heat Exchanger
7. Design of Cyclone Separator using MS-Excell

Paper published in Journals:

1. H.Fatima, M.A.Hakeem, M.Kamil⁺, N.A. Khan **Transient Behaviour of a Double Pipe Heat Exchanger** *Indian Chemical Engineer*, 49(2), 113-124, 2007
2. Abu Mustafa Khan,N. A. Khan and M.Kamil, **Modeling of Spiral Coil Heat Exchanger:Model with Easy Simulation Using MS-Excell** *J.Inst. Eng, Series E Chemical and Textile Engg* DOI 10.1007/s40034-014-0030-4, 2014
3. Naseem Ahmad Khan,and Wasiur Rahman, **Modeling and Simulation of Plate Heat Exchanger**, *International Journal of Mechanical Engineering* Vol 2 issue 1,ISSN 2277-705
4. Wasi Ur Rahman ,Anam Fatima, Abdul Hakeem Anwar, Moina Athar, Mohammad Zain Khan, Naseem A Khan, Gopinath Haider, **Biodiesel Synthesis From Eucalyptus Oil By Utilizing Waste Egg Shell Derived Calcium Based Metal Oxide Catalyst**, *Process Safety and Environment Protection* 122(2019) 313-319 Elsevier

Paper Presented/Published in Conferences:

1. Hakeem M. Abdul; Khan Naseem A.; Zaidi Sadaf and M. Kamil, **'Heat Exchanger Network- An Energy Conservation Tool'** *'All India Seminar on Energy Management in Process Industries'* Institution of Engineers, Aligarh Local Chapter, Aligarh, February 18-

- 19, 2006.
2. Kamil M.; Hakeem M. Abdul; Zaidi Sadaf and Naseem A. Khan, '**Potential of Natural Gas Hydrate as a Future Energy Source**' '*All India Seminar on Energy Management in Process Industries*' Institution of Engineers, Aligarh Local Chapter, Aligarh, February 18-19, 2006.
 3. Zaidi Sadaf; Khan Naseem A.; Hakeem M. Abdul and M. Kamil, '**The Energy Conservation Act, 2001-A Dynamic Step in Energy Conservation Efforts in India**' '*All India Seminar on Energy Management in Process Industries*' Institution of Engineers, Aligarh Local Chapter, Aligarh, February 18-19, 2006.
 4. N. A. Khan, M. Idrees, '**Optimal design of Shell and Tube Heat Exchanger**', 63rd Annual session of the Indian Institute of Chemical Engineers(CHEMCON 2010), Annamalai University, Chidambaram Dec 27-29,2010
 5. Naseem A. Khan, M. A. Hakeem, Sadaf Zaidi, , '**Computer Aided Design and Optimization of Multiple Effect Evaporator,**' 64th Annual session of the Indian Chemical Engineering Congress, CHEMCON 2011', Department of Chemical Engineering, Ramaiah Institute of Technology, Bangaluru, December 27-30, 2011.
 6. M. A. Hakeem, M. Kamil, Sadaf Zaidi, Naseem A. Khan **An Overview of Alternate Sources of Energy,** , HEECON-12, Department of Petroleum Studies, Aligarh Muslim University, Aligarh, February 25, 2012.
 7. S. Zaidi, Naseem A. Khan, M. A. Hakeem, M. Kamil, **Biodiesel from Microalgae an Emerging Energy Technology,** HEECON-12, Department of Petroleum Studies, Aligarh Muslim University, Aligarh, February 25, 2012.
 8. Faizan Ahmad ,N.A. Khan, '**Optimum Design Of Multiple Effect Evaporator**' 66th Annual session of the Indian Chemical Engineering Congress, CHEMCON 2013 Department of Chemical Engineering, UCT Bombay, December 27-29 2013
 9. Abu Mustafa Khan, N. A. Khan and M. Kamil, Modeling of Spiral Coil Heat Exchanger: model with easy simulation using MS-Excel . International Conference on '**Energy System Modeling and Optimization Conference (ESMOC 2013)**, Department of Chemical Engineering, NIT Durgapur, West Bengal, December 9-11, 2013
 10. Naseem A Khan, '**Model Curriculum for UG Chemical Engineering**' under FDP at HBTU 24/07/2018

Seminars, Conferences, Refresher Courses and Workshops etc. Attended;

1. '**Design and Maintenance Aspect of Static Equipments in Chemical Industries**', ISTE at GSFC Vadodra 21st Nov-3rd Dec 1988
2. '**CAD for Chemical Engineers**', IIT KGP, Feb22-Feb26 1988
3. '**Computer Aided Process Engineering and Control**', UNESCO IIT Bombay, Jan29 - Feb 02 1990
4. '**Economic Utilization of Renewable Energy Resources**' Mechanical ENGG. Deptt.AMU Aligarh May 1990
5. '**Induction Training Program for Engineering College Teachers**', Academic Staff College, A.M.U., Aligarh, 15.7.1996-4.8.1996
6. **National Convention on Vocationalization of Computer Education** Department of

- Computer Science, A.M.U., Aligarh, September 28-29, 1996
7. **'Reliability and Safety in Process Industries'**, H.B.T.I. Kanpur 28.9.98-10.10.1998
 8. **'Refresher Course on Advances in Chemical Engineering'**, Academic Staff College, A.M.U., Aligarh, Jan. 22-Feb. 12, 2002
 9. **'Refresher Course on Computer Application (inter disciplinary)'**, Academic Staff College, A.M.U., Aligarh, April 10 –May 02, 2002
 10. **'Wind effects on Building and Structures'**, Department of Civil Engineering, A.M.U., Aligarh, February 1-2, 2002.
 11. **'Workshop on Recent Advances in Hydrocarbon Technology'**, Department of Petroleum Studies, A.M.U., Aligarh, Oct. 26, 2002.
 12. **'Refresher Course on Hydrocarbon Engineering'**, Department of Petroleum Studies, A.M.U., Aligarh, January 7-9, 2005
 13. **'Process Analysis And Optimization – using Pinch Technology '**, AICTE, under QIP Department of Chemical Engineering, I.I.T. Roorkee. May 23-June 3, 2005
 14. **'Emerging Application of Surface Science'** Engineering IIT Delhi and Indian Society for Surface Science &Technology, North India Chapter, Nov. 15, 2005.
 15. **'ISO 14001- Environmental Management System'**, National Small Scale Industries Corporation (NSSIC), Aligarh, January 31, 2006.
 16. **'Conference on CHEMCAD PROCESS SIMULATION'**, by Axiom, Chemstation and Ingenious at Delhi on 26th January 2010
 17. **'Workshop on Issues related to the Translation of Science and Social Sciences Books from English into Urdu'**, By National Translation Mission(CIL)and Distance Education Centre AMU Aligarh
 18. **'Communication Skills for Engineers '**,Academic Staff College, A.M.U., Aligarh
 19. **'Workshop on Educational Resource Planning'**, Department of Computer Science and Department of Computer Engineering, Aligarh Muslim University, Aligarh, January 17-18, 2012.
 20. **'Refresher Course on SCADA (LabView)'**, Department of Petroleum Studies, Aligarh Muslim University, Aligarh, February 6-10, 2012.
 21. **National Conference on Hydrocarbon, Energy and Environment HEECON-12**, Department of Petroleum Studies, Aligarh Muslim University, Aligarh, February 25, 2012.
 22. **'Conference on Technical Advancement in Chemical Engineering and Environmental Engineering TACEE 2012'** Department of Chemical Engineering, Birla Institute of Technology (BITS) Pilani, March 23-24, 2012.
 23. **'Fuel Cells as Backup Power for Telecommunication Networks'**, Department of Electrical Engineering, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, December 22, 2012
 24. Workshop on **'Computational Methods in Heat and Fluid Flow'**, Department of Mechanical Engineering, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, February 18-19, 2012.
 25. International Conference on **'Advances in Chemical Engineering, ACE Feb22-24,2013** IIT Roorkee

26. National conference on '**Minimization of Environmental Impact of Slaughter House Wastes by Value Addition as Pet Foods**', Department of Post-Harvest Engineering and Technology, Institute of Agriculture, Aligarh Muslim University, Aligarh, January 5, 2013.
27. National Symposium on '**Nanotechnology for Chemical Application**', Department of Chemical Engineering & Centre of Excellence in material Sciences (Nano Materials) Department of Applied Physics, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, February 27, 2013.
28. International Conference on '**Energy System Modeling and Optimization Conference (ESMOC 2013)**', Department of Chemical Engineering, NIT Durgapur, West Bengal, December 9-11, 2013.
29. Workshop on '**Process Modeling and Simulation**', Department of Chemical Engineering, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, March 23-24, 2013.
30. Training Program on '**Steady State Simulation on ASPEN PLUS**', Department of Chemical Engineering 8-10 October, 2013
31. Training Program on '**MATLAB**', Department of Chemical Engineering 8th-21st Nov, 2013
32. International Conference on '**Advances in Chemical Engineering (ACE -2013)**', Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, UTTARAKHAND. February 22-24, 2013.
33. National Workshops on '**Advances in Bioprocess Engineering**', Deptt of Chemical Engg AMU Aligarh October 13, 2014
34. National Workshop on '**Introduction to Molecular Modelling using WINGAMESS Under TEQIP-II April 29, 2015**
35. '**68th Indian Chemical Engineering Congress, CHEMCON 2015**', Department of Chemical Engineering, Indian Institute of Technology, Guwahati – 302015, December 27-30, 2015
36. One day Workshop on "**Curriculum Development for B. Tech. & M. Tech. (Chemical Engineering)**" organized by the Department of Chemical Engineering, Aligarh Muslim University, Aligarh (India) under TEQIP II, on October 6, 2016.
37. '**Higher Education and Technology Conference and Expo** 21st June, 2018 Gurgaon
38. One Day National Workshop on "**Modelling & Simulation in Chemical Engineering & Allied Fields**", organized by the Department of Chemical Engineering, Z.H.C.E.T., A.M.U., Aligarh (India) under TEQIP III, October 27, (2018).

Co Chairman: In one of the technical session 66th Annual session of the Indian Chemical Engineering Congress, CHEMCON 2013 Department of Chemical Engineering, UCT Bombay, December 27-29 2013

Awards/Prizes:

Received Sir Ganga Ram Memorial Prize for the paper entitled, Modelling of Spiral Coil Heat Exchanger: Model with Easy Simulation Using MS-Excel, December 2015

PROJECT:

Project Title: To develop and to Implement a Process Safety Management Program	
Funding Agency :	AICTE
Funding Amount :	Rs. 5.00 Lakh
Principal Investigator :	Prof. S. S. Alam
Co- Principal Investigator :	Dr. M.J. Khalil, Dr. M. Idrees, N.A. Khan
Project Title: Computer Assisted instructions and interactive Experimentation in Chemical Engineering Education	
Funding Agency :	MHRD
Funding Amount :	Rs. 5.00 lakh
Principal Investigator :	Prof. Shaukat Ali
Co- Principal Investigator :	Dr. S. A. Ahmad, N.A. Khan

Teaching Experience:**U. G. Level**

1. Computer Programming
2. Mechanical Operations and Material Handling
3. Numerical Methods
4. Heat Transfer Operations
5. Chemical Process Industries-I and II
6. Process Equipment Design
7. Pressure Vessel and Piping Design
8. Process Heat Transfer
9. Process Instrumentation, Safety and Utilities
10. Selected Topics in Chemical Engineering
11. Social Cultural and Educational Movements of India

P.G. Level

1. Expert System
2. Computer Aided Process Design
3. Process Flow sheeting

INTER-DISCIPLINARY COURSES:**Department of Chemistry****B.Sc. Industrial Chemistry**

Unit Operations in Chemical Industry
Process Instrumentation

M.Sc. Industrial Chemistry Lab Course and Project

Department of Petroleum Studies

Fertilizer Technology

Interdisciplinary Biotechnology Unit A.M.U. Aligarh

M.Sc Biotechnology Computational Methods

Department of Computer Science.

Software laboratory

Department of Post-Harvest Engineering and Technology

M.Tech. Post-Harvest Engg. and Technology,

Following Laboratory Course:

1. Heat Transfer Operation
2. Mass Transfer Operation
3. Fluid Particle Operation
4. Transport Processes
5. Process Instrumentation and Control
6. Reaction Engineering and Thermodynamics

Department of Chemical Engineering, R.B.S. College Agra, U.P.

Following Laboratory Courses:

1. Heat Transfer Operation
2. Mass Transfer Operation
3. Fluid Particle Operation
4. Transport Process
5. Process Instrumentation and Control
6. Reaction Engineering and Thermodynamics

COMPUTATIONAL SKILL:

Working experience and hand on skills in the usage of following Programming language and software.

1. MATLAB
2. Visual ForTran
3. C/C++
4. MS EXCEL
5. HYSIS (Steady State Simulator)
6. Aspen Plus (Process Simulator)
7. CHEMCAD

INNOVATIONS/CONTRIBUTIONS IN TEACHING

Actively involved in the revision of Course Structure and syllabi of B. Tech and M. Tech Chemical Engineering

Involved actively in introducing following Chemical Engineering laboratories

- Computer Applications Lab
- Chemical Engineering Computation Lab
- CAD/Simulation Lab
- Process Development Lab
- PG Lab (Advance Chemical Engg Lab)

DEPARTMENTAL RESPONSIBILITIES:

- In charge Departmental Workshop

- In charge Computational Facility
- In charge Energy Lab
- In charge Seminar Library
- In charge Mechanical Operation Lab
- In charge Heat Transfer Lab
- In charge Tour and Training
- Departmental Coordinator TEQIP-II
- In charge Student Activities SACHES
- Assisted in the organization of different events and programs

CONFERENCE/SEMINAR /WORKSHOP ORGANIZED:

- Organizing Secretary National Symposium on '**Nanotechnology for Chemical Application**' February 27, 2013.
- Organizing Secretary National Workshop on '**Process Modeling and Simulation**', March 23-24, 2013.
- Member of the Organizing Committee of National conference on '**Minimization of Environmental Impact of Slaughter House Wastes by Value Addition as Pet Foods**' January 5, 2013.
- Training Program on **Steady State Simulation on ASPEN PLUS**, Department of Chemical Engg. 8-10 October, 2013
- Training Program on **MATLAB**, Department of Chemical Engg. 8th-21st Nov ,2013
- Member of the Organizing Committee National Workshops on **Advances in Bioprocess Engineering** , October 13, 2014
- Convener ,One day Workshop on “**Curriculum Development for B. Tech. & M. Tech. (Chemical Engineering)**” organized by the Department of Chemical Engineering, Aligarh Muslim University, Aligarh (India) under TEQIP II, on October 6, 2016.
- **One Day National Workshop on “Modelling & Simulation in Chemical Engineering & Allied Fields”**, organized by the Department of Petroleum Studies, Z.H.C.E.T., A.M.U., Aligarh (India) under TEQIP III, October 27, (2018).
- Convener/Coordinator of **International Conference on Advances in Chemical and Petroleum Engineering** to be held in Feb 2020

PARTICIPATION IN CORPORATE LIFE:

(a) Contribution to College

- Coordinator TEQIP-II of ZHCET
- Member of the Committee to frame rules of consultancy for ZHCET
- Member of BoS of Deptt of Biomedical and Human Factor Engg
- Member of the Committee to decide modalities for adoption and implementation of AICTE Gazetted Notification Regulation 2019
- Member of the Committee to propose Ordinances for M.Tech by Research
- Member of the Committee to prepare Vision document of Engg College
- Member of the Committee to frame rules of Revolving funds of ZHCET
- Member of anti-ragging Committee of ZHCET
- Member of the Committee appointed by the VC to establish the deptt. of Polymer Sc

(b) Contribution to University/Institution

- Elected Member of Executive Council A.M.U. Aligarh from October 1991-94
- Worked as Astd. Proctor A.M.U Aligarh 1994-95
- Elected Member of Executive Council A.M.U. Aligarh from December 2014-17
- Member of University Grievance Committee (twice)
- Worked as Pro Proctor several times
- Member of the Committee to reform Admission Process -2006
- Member of the Managing Committee of K A Nizami Centre for Qur'anic studies
- Member of the Purchase Committee for Dawakhana Tibbiya College
- Member of BoS of Deptt of Kulliyat A K Tibbiya College
- Member of the Committee for Re christening of University Building
- Member of the Committee to decide the modalities of Integrated Solid Waste Management Facility
- Member of the Committee to submit proposal for future expansion of university infrastructure
- Member of the Managing Committee of J.N. Medical College
- Member of the Committee to frame Rules for payment of Extra Work Allowance
- Member of the Committee to recommend remuneration rate
- Member of the Committee for digitization of records of university property and to submit proposal for the protection of University Property
- Member of the Committee to decide entitlement of MTS for university Uniform
- Member of the Committee to frame guidelines/amendment/relaxation of Recruitment rules
- Member of the Committee to frame revised Rules for AMU student union Election in the light of Lyngdoh Commission and various judgement of Hon'ble Supreme Court
- Member of the Committee to work out the details for 5 days week
- Member of the committee appointed by Dean to decide change of branch for NRI students

(c) Membership of Professional Bodies, Societies etc.

- Life Member IICChE
- Life Member Indian Society for Industrial Hygiene
- Member Society of Muslim Computer Scientist and Computer Professionals.

Extension Work/Community Service

Community work such as National peace, scientific temper, humanism, socialism, **Founder member of an Association, Known as Integration, Teachers for Harmony working for communal harmony**

National Literacy Mission Participated in a workshop **Issues related to the Translation of Science and Social Sciences Books from English into Urdu**

Actively engaged in imparting education to children through an NGO Iqra Educational Foundation

Life Member of Darul Musannefin (Shibli Academy) Azamgarh.