



Name : **Dr. ZIA-UL HASAN KHAN**

Designation : Associate Professor and Head

Department : Department of Biochemistry
Shri Shivaji College, Akola.

Teaching Experience : 28 years.

- a) Assisted in teaching and conducting Practical of M.Sc. (Biochemistry), Students of Marathwada University, Aurangabad during 1980 - 1982.
- b) Working as head of the Department of Biochemistry since 1985 and teaching Biochemistry to under Graduate Students in Shri Shivaji College, since 1985.
- c) Teaching Biochemistry (Biological, Analytical, General, Enzymology, Plant Biochemistry and Biotechnology) to P.G. Biochemistry Students in Shri Shivaji College, since 1994.
- d) Teaching Analytical Biochemistry to M.Sc. (Microbiology) students of Shri Shivaji College, Akola since 1994.
- e) Guiding 09 Research Students for their Ph.D. Six student has already been awarded Ph.D. degree.

Date of Birth: 02/12/1954

Cast: OBC (Momin, Julaha)

Subject taught:

Biochemistry (Cellular, Physical, Analytical, Nutritional, General, Plant, Enzymology, Metabolism etc.)

Educational Qualifications

- a) B.Sc. from Nagpur University in 1977. - 1st attempt IInd Division
- b) M.Sc. (Biochemistry), From Marathwada University, Aurangabad, in 1979 Ist attempt Ist Division.
- c) Ph. D. (Biochemistry), From Marathwada University, Aurangabad in 1985. Thesis Entitled: "The studies in Alternations in the Microsomal Electron Transport System".

Research qualification acquired:

Recognized as Ph. D. supervisor in 1995 for the subject Biochemistry in the faculty of Science, Amravati University, Amravati.

Recognized as Ph.D. Supervisor in R.T. M. Nagpur University, Nagpur in 2006 for Biochemistry.

Ten students have been awarded with Ph.D. Degree under supervision on topics:-

- i. Dr.Renuka Rajurkar:"Isolation purification & characterization of carboxyl Esterase from midgut of *Helicoverpa armigera*".(2001)
- ii. Sharada Deshmukh: Prevalence of Nephrolithiasis and its Correlation with Biochemical Parameters in Patients from Marathwada Region.(2006)
- iii. Mohammed Rizwan: DNA Finger Printing and Comparative Genetic Analysis of susceptible and Resistant Strain of *Helicoverpa armigera*.(2006)
- iv. Sayyed Abrar Ali: Isolation and development of strain for Hepatitis B vaccine. (2007)

- v. Bhushan Kavimandan: Studies on Biochemical and Molecular Parameters for Identification of varieties and hybrids of sorghum.(2006)
- vi. Mr. Naren Nikhade: Biochemical studies in diabetic patients from Akola district. (2012)
- vii. Mr. S.S. Warke:- Studies on Effects of Antituberculosis drugs on Various Biochemical parameters of serum/ Urine/ Sputum of Tuberculosis Patients.
- viii. Ms.Phareen Khatib: Biochemical Studies and Prevalence of Rotavirus Diarrhea in Akola District.
- ix. Mr.Azfar Qureshi: Molecular characterization of Methicilin resistant *S.aureus* isolates form patients of Akola region.
- x. Ms. Nazia Khan - *Tribolium Castaneum*: A study of alpha amylase & its inhibition by plant proteinaceous inhibitors

Three Students have submitted thesis for Ph.D. degree

- i. Mr.Rehanus-Salim Khan: Isolation, Purification and Characterization of Chitinase from different *bacillus spp.*.
- ii. Mr. S. M. Mular:- Purification, characterization and comparison of Cytochrome p450 enzymes from varieties *Cajanus Cajan* from the country and abroad.
- iii. Ms. Sobia Ghani:- Antioxidant activity of certain Indian Medicinal Plants.

Seven students are working for Ph.D degree

- 1) Ms. A. A. Balode:- Effect of Rosuvastatin in kidney failure patients on regular haemodialysis.
- 2) Ms. Jyoti Anandani:- Isolation & Biochemical characterization of Enterocin produced by Entrococcus species isolated from urine of patients suffering from UTI.
- 3) Mr. Asif Durrani : RBHK(Recombinant baby Hamester cell line) : adoption to serum free media followed by fine tuning of critical parameter to increase expression of protein of interest. (R. T. M. Nagpur University, Nagpur.)
- 4) Mr.Mohd.Tabreez Makrani: “Antioxidant potential of certain Medicinal Plants.” (R. T. M. Nagpur University, Nagpur.)
- 5)Ms.Sangita S. Kunjwani: Screening of β -Thalassemia in Sindhi community and Biochemical Complications faced by β -Thalassemic Major patients.
- 6) Ms.Sonal Saoji: Studies on decolorization and detoxification of molasses spent wash by group of lignin degrading enzymes isolated from fungus and comparative study of their characters.
- 7) Mr. Yogesh K. Gawai:- Biochemical profile of *Ascardia Galli* infected Broiler chicken treated with some Ayurvedic preparations.

Research Project undertaken

- i. Completed one Minor Research Project entitled “Biochemical studies and prevalence of Rotavirus diarrhea in Akola District”. The total outlay was Rs. 90,000/-
- ii. One Major project entitled “*Tribolium Castaneum* : A study of alpha amylase activity and its inhibition by plant proteinaceous inhibitors” is ongoing. Its total outlay is Rs. 7,16,000/-

Participation in Seminar, Workshops & Conferences

1.	Effect of Burn Injury on Hepatic Drug Metabolising Enzymes and Serum Lipid Peroxidation. Z. H. Khan, K. R. Gawai, H. S. Hanifi, Presented Paper at 50th Annual Meeting of Society of Biological Chemist (India) 18-20 Nov. 1981 at Baroda (Abstract No. 08.22).
2.	Effect of Pretreatment of Vitamin E and Ascorbic Acid on Synthesis of Lipidperoxide in Brun Skin. Z. H. Khan, H. S. Hanifi and S. S. Pawar presented paper at 51st Annual Meeting of Society of Biological Chemist (India 18-20, 1982 at Chandigarh (Abstract No. 336).

3.	Attended 27th Annual Conference of Association of Microbiologist of India 20-22 December 1986 at Nagpur.
4.	Participated in the symposium on Popularizing Biochemistry Technological Process for Rural and Semi-Urban Areas” Sponsored by UGC Organized by P.G. Dept. of Microbiology & Biochemistry and Academic Staff College, Nagpur, from 7th to 9th Feb., 1991.
5.	Attended and presented a paper on “Lipid peroxide level in serum of Burnt injury affected Rats.” and actively took part at 81st. Session of the Indian Science Congress being held in Rajasthan University, Jaipur from January 3rd to 8th, 1994.
6.	Attended the XVI IUBMB India International Satellite Symposium on Biochemical Education (Workshop) between Sept. 23-35, 1994 arranged at Dept. of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, India.
7.	“Studies on Biodegradation of Ash from Thermal Power Plants”. M. Musaddiq, Z. H. Khan and N. S. Kulkarni. Presented paper at 36th Annual Conference of Association of Microbiologist of India Nov. 8-10, 1995 at Dept. of Microbiology CCS Haryana Agricultural University Hissar (Abst. No. EM-5).
8.	Attended and Participated in Short term workshop entitled “ Basic methodology in Isolation and Characterization of Lectins” held at the division of Biochemistry, Dept. of Chemistry, University of Pune, under the sponsorship of Deppt of Science and Technology, India. Feb 5 th -9 th 1996
9.	Participated in conference of Association of Clinical Biochemists of India, Maharashtra State Branch, held at Lonavala (Pune) on 12th and 13th Oct., 1996.
10.	Participated in the National Symposium on Disease Diagnostics held between 25th-29th Oct., 1997, Organized by Dept. of Biochemistry, Nagpur University, Nagpur, in connection with its Golden Jubilee Celebration.
11.	Effect of Anti-tuberculosis Drug on Blood PCO ₂ and Serum Electrolytes in Tuberculosis Patients. Z.H.Khan and S. S. Warke, presented paper at 66th Annual Meeting of the Society of Biological Chemists (India) held at Visakhapatnam during 22-24 Dec. 1997.
12.	Relationship between Caries Status, Colony forming, units (CFU) of Streptococcus mutans and synder activity test. Ali Y. A.; Chandranee N. J.; Wadher B.J.; and Khan Z. H., 5th Maharashtra Chapter Conference of Indian Association of Medical Microbiologist, 30th Sept. & 1st Oct. 1999 at Latur.
13.	Pyrethriod Resistance Related to Detoxifying Enzymes in Helicoverpa armigera in Akola Region. Z. H. Khan; R. B. Rajurkar; 69th Annual Meeting of SBC (India), 7-9 December 2000, Calcutta.
14.	Biochemical Constituents of Different Varieties of Tomatoes (Lycopersicon Esculentum) Arti R. Purohit and Zia H. Khan, 69th Annual Meeting of SBC (India), 7-9 December 2000, Calcutta.
15.	Attended and participated Workshop on “Techniques in modern Biology” held at department of Biotechnology, Amravati University, Amravati, December 26 th -30 th 2001.
16.	“Effect of Gibberellin, thiourea and ethrel on biochemical parameters in germinating seeds”, Z. H. Khan, B. R. Kavimandan, S. M. Kale, A. G. Sindhikar, S. Sharma, 70th Annual Meeting of SBC (India), Hyderabad, 27-29th December, 2001.
17.	“Carboxylesterase isozymes responsible for insecticide resistance in Helicoverpa armigera” Z. H. Khan, R. B. Rajurkar, 70th Annual Meeting of SBC (India), Hyderabad, 27-29th December 2001.
18.	“Electrophoretic pattern of carboxylesterase isozymes related to enzyme activity in Helicoverpa armigera”, R. B. Rajurkar, Z. H. Khan, presented paper at 70th Annual Meeting of SBC (India), Hyderabad, 27-29th December, 2001.
19.	“Study on effect of different concentrations of nitrogen on different biochemical parameters of 5 days old chana plant (Cicer aurantinum)”, Zia H. Khan, Asif

	Durrani, Sanober Nahid, M. Rizwan, P. S. Naphade, M. Musaddique. Presented paper at 70th Annual Meeting of SBC (India), Hyderabad, 27-29th December, 2001.
20.	Ecosystem of Lonar Lake, Fokmare Anil K., Mohd. Musaddiq, Khan Zia H., Khan Rizwan. 42nd Annual Conference of AMI, Gulbarga, 9-11th Nov., 2001.
21.	Attended and participated in the College Seminar held in Microbiology department of RLT college of Science, Akola on 17 th December 2002.
22.	Isolation of papain and study on inducible effect of Biochemical and metal ion activators on its activity, Z. H. Khan, Azfar Qureshi, Sunita Popat, Sangita Kunjwani, M. Musaddique. 90th Indian Science Congress, Bangalore, 3-7th Jan., 2003.
23.	Effect of diffusion concentration of glucose under influence of electric energy in tissue of Raphanus sativas, S. M. Mular, N. R. Nikhade, S. D. Patil. A. S. Dange, Z. H. Khan, M. Musaddique. 90th Indian Science Congress, Bangalore, 3-7th Jan. 2003.
24.	Effect of combination of Herbal remedies in insulin independent Diabetes Mellitus patients. Renuka Rajurkar, Atul Dange, Amol Agarkar, Zia. H. Khan., S. P. Deshmukh. 90th Indian Science Congress, Bangalore, 3-7th Jan. 2003.
25.	Effect of chemical fertilizers and biofertilizers on physical parameters and biochemical constituents in five days old chick pea and pigeon pea plants. Z. H. Khan., M. A. Khan, S. A. Khan, A. A. Bhandari, V. S. Dharaxshivkar, M. Musaddique. 90th Indian Science Congress, Bangalore, 3-7th Jan., 2003.
26.	Extraction and comparative study of eucalyptus oil from two different species Eucalyptus globulus and Eucalyptus glybeliferi available in Akola Dist., S. M. Mular, A. R. Bhople, V. J. Trivedi, A. R. Pisole, S. S. Lokhande, Z. H. Khan., S. P. Deshmukh, 90th Indian Science Congress, Bangalore, 3-7th Jan., 2003.
27.	Attended and Participated in UGC sponsored National Conference on “Ethanobotany, Biodiversity and Conservation” organized by Department of Botany of Shri Shivaji College of Arts, Commerce and Science, Akola. January 18 th -19 th 2003.
28.	Attended and Participated in State level Seminar on “Intellectual Property Right & Human Resource Development” held at Government college of Education, Akola. January 23 rd -24 th 2004.
29.	Attended “National Symposium on Drug Design & Bioinformatics (D D B’o3) on 20 th Dec. 03, 2004, organised by P.G. Teaching Dept. of Biochemistry, Nagpur University, Nagpur.
30.	Attended and Participated in National Symposium on “Recent Advances in Cancer Research” organized by PG teaching department of Biochemistry, Nagpur University, Nagpur, held on January 7 th 2005.
31.	Physiological response of some bacteria to cadmium from water bodies. Anil K. Phokmare, Zia H Khan, M. Musaddique. Presented paper in 46 th Annual Conference of Association of Microbiologist of India held in Osmania University, Hyderabad from 8 th to 10 th Dec. 2005
32.	Urinary risk factors in nephrolithiasis from Latur District of Marathwada region. Z.H.Khan, Sharada Deshmukh. Presented paper in 32 nd Annual Conference of Association of Clinical Biochemist of India, held in Patna from 18 th to 21 st Dec. 2005.
33.	Estimation of cholesterol and serum tannic acid levels with respect to Bidi, Cigarette and Chulam smoking in the Rajasthani Population from Akola District, Maharashtra. Junaid H Farooqui, Nafees A Qureshi, Ankur B Agrawal, Rahul Patil and Zia H Khan. 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.
34.	Urinary excretion of inhibitors in Renal Stone Patients. Sharada R Deshmukh and Zia H Khan 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.
35.	Calcium and phosphorous level in chronic renal failure patients may balance if green leafy vegetables included in the diet. Sangita S Kunjwani, Jyoti H Anandani and Zia H Khan 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.

36.	Prevalence of type II diabetes in the urban population: Lessons from Akola. Maharashtra. Naren R. Nikhade, Laxmikant Kamble, Zia H. Khan. 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.
37.	Using phylogentic approaches for deciphering the G:C contents in the conserved region genes of prokaryotes and eukaryotes. Jyoti H Anandani, Nazia D Khan, Sangita S Kunjwani and Zia H Khan 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.
38.	Electrolytic separation and identification of different proteins from latex of Calotropis. Deepa Lachhwani, Shital Rothe and Zia H Khan 33 rd ACBICON 2006. 23 rd – 26 th Nov 2006 held in AFMC, Pune.
39.	Seed protein and esterase isozymes as substitute for sorghum cultivar identification by Grow out Test (GOT) method. Bhushan Kavimandan and Zia H Khan Presented at International Conference on Post Harvest Technology and Value Addition in Cereals, Pulses and Oil seeds. From 27 th to 30 th Nov 2006. Organized by Indian Society of Agricultural Biochemist and Department of Agri. Biochem. In CS Azad University of Agri and Tech, Kanpur.
40.	Participated in National conference from 28 th to 30 th Jan 2007 on Modern Approaches and Innovations in Biotechnology and Biodiversity conservation organized by department of Biotechnology and Biological science, Shri Shivaji Science College, Amravati.
41.	Attended state level conference on environment organized by Shri Shivaji of Arts Commerce and Science, Akola and Team to Restore Environment (TREE). On 4 th Feb 2007 at Akola.
42.	Attended the UGC sponsored university level one day workshop on Problem of Farmers, organized by department of Humanities. Shri Shivaji College of Arts, Commerce and Science, Akola on 17 th Dec 2006.
43.	Attended the Sant Gadge Baba Amravati University's 9 th Mahila Teachers Conference On 3 rd Jan 2007 organized by Shri Shivaji College of Arts, Commerce and Science, Akola.
44.	Attended and Participated in the National Seminar on "Current trends in Chemical Sciences Research" organized by department of Chemistry, Shri Shivaji College of Arts, Commerce and Science, Akola, 28 th March 2008.
45.	Occurrence of Fluorides in Drinking Water from Akola District Shraddha A Deshmukh, S M Mular and L H Kamble 78 th Indian Science Congress 2009. 3 rd – 7 th Jan 2009 held in Shillong.
46.	Hematological and Biochemical Studies in Burn Patients of Different Age Groups J. H. Anandani, S. H. Mishra, Rekha Agrawal and Z. H. Khan 78 th Indian Science Congress 2009. 3 rd – 7 th Jan 2009 held in Shillong.
47.	Amylase activity of 16 common Spices. Nazia Khan, Z.H.Khan and Laxmikant H.Kamble. 97 th Indian Science Congress 2009. 3 rd – 7 th Jan 2009 held in Shillong.
48.	A study to assess involved organism(s) in superficial skin and soft tissue abscess with respect to their sensitivity or resistance for the given antibiotics. Sangita s. Kunjwani, L.H. Kamble, Z.H. Khan, 96 th Indian Science Congress 2009. 3 rd – 7 th Jan 2009 held in Shillong
49.	Study of Cytochrome p450 enzymes from varieties of <i>Cajanus cajan</i> S M Mular and Z H Khan. 97 th Indian Science Congress 2009. 3 rd – 7 th Jan 2009 held in Shillong.
50.	National Workshop on opportunities of Government funded R&D Projects for Academic Institutions. 19 – 20 Nov 2009 at Jnana Jyothi Auditorium, Bangalore University (Central College Campus), Bangalore
51.	Influence of Spent wash application on protease & amylase activity in germinating wheat seed. Sonal saoji, Pallavi Nandurkar. Nazia Khan, Z. H. Khan. 97 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan. 2010
52.	Bioprocessing of sugar cane waste for alpha amylase production by bacillus subtilis. Mohd. Subur Arshad, Ghufran Khan, Shraddha Deshmukh, Nazia Khan, Z. H. Khan. 97 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan. 2010.
53.	Blood sugar & Lipid profile changes during pregnancy. Shital Songirkar, S. S. Kunjwani, Z. H. Khan. 97 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan. 2010.

54.	Co-relation of minerals & Hemoglobin level in preschool children with pica. R.J. Patel, J.H.Ananadani. Z. H. Khan. 97 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan.2010.
55.	Quantitative analysis of nitrate & nitrite ion concentration in different vegetables of Akola markets. Mohd. Riyaz, Nazia Khan, Z. H. Khan. 79 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan.2010.
56.	Evaluation of Serum calcium level during pregnancy in buldhana district. Shaikh Kashid, Nazia Khan, S. S. Kunjwani, Z. H. Khan. 97 th Indian Science Congress, Thiruanantpuram on 3 rd to 7 th Jan.2010.
57.	Study of trans-cinnamate 4-Hydrxylase in different varieties of Cajanus cajan. S.M.Mular, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010,Akola(MS)
58.	Prevelence of Hepatitis B & C infection in Hemodialysis patients. Ashwini Balode, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
59.	Effect of thyroid dysfunction on lipid & sugar metabolism of diabetic patients. J.H.Ananadani, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
60.	Study of proteinaceous inhibitors of seeds with invitro activity towards alpha Amylase of red flour beetle, Tribolium Castsneum. Nazia Khan, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
61.	Comparative study of antidandruff activity of curd & germinating fenugreek seeds. Indira B.Soneji, Jamila Sadaf, S.S.Kunjwani, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
62.	Study of Liver function test in malarial & normal pregnant patients. Ronak Nalwaya, S.S.Kunjwani. Nazia D. Khan, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
63.	Study of Thrombocytopenia, RA factor & Hyperbilirubinemia in dengue cases. Sangita Kunjwani, Z. H. Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
64.	Salt iodization assessment & IDD in rural areas of Akola (M.S.) R.J.Patel, Z.H. Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
65.	Isolation, purification and characterization of chitinases from different Bacillus spp. Rehanus saleem Khan, Z.H. Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
66.	Biochemical studies in serum of children suffering from rota virus diarroea. Pharren Khatib, Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
67.	High risk of CVDs in type II diabetes prevalent population from Akola.Naren Nikhade,L.H.Kamble,Z.H.Khan. National conference on BIOTECHNOLOGY FOR BETTER TOMORROW on 6 th & 7 th Feb.2010 Akola(MS)
68.	Study of biochemical parameters among type 2 diabetes mellitus positive subjects from Akola city, Naren R. Nikhade, L. H. Kamble, Z. H. Khan. 3 th ACBICON 2010. 13 rd – 15 th Dec 2010 held in WTC, Mumbai.
69.	Attended and Participated in 98 th ISC held at SRM University Chennai January 3 rd -7 th 2011.
70.	Attended, actively participated and chaired the session in State level workshop on Research methodology in science organized by Shankarlal Khandelwal Arts, Science and Commerce college on 26 th Feb 2011.
71.	Attended and Participated in One Day district level Workshop entitled “ Role of Teacher for quality education with reference to Sixth pay Commission” organized by Shri Shivaji College,Akola in collaboration with Office of Joint Director Higher Education Amravati and SGB Amravati University,Amravati,April 10,2011.
72.	Presented the paper entitled “Effect of Lipoic acid on aminopyrine N – Demethylase in ethanol intoxicated chick liver”. and chaired the session in UGC sponsored National Conference on Advances in Life Sciences for sustainable rural

	development.Khandelwal College, Akola.11,12,October 2011.
73.	Presented the paper entitled “Hepatoprotective effect of Lipoic acid on liver enzymes in alcohol intoxicated chicks”. and chaired the session in UGC sponsored National Conference on Innovations in Biosciences.21,22 October 2011 Washim.
74.	Presented the paper entitled “Effect of Lipoic acid on Cytochrome P450 reductase in ethanol intoxicated chick liver”. and chaired the session in UGC sponsored National Conference on Innovations in Biosciences.21,22 October 2011 Washim.
75.	Presented the paper entitled “Isolation & partial purification of Entrocin produced by Enterococcus species isolated from patients suffering from UTI”. and chaired the session in UGC sponsored National Conference on Innovations in Biosciences.21,22 October 2011 Washim
76.	Presented the paper entitled “Identification & screening of malarial antibodies on the basis of blood & buffy coats smears & one step serological antimalaria- (P.f./ P.v.) test: A comparative study”. and chaired the session in UGC sponsored National Conference on Innovations in Biosciences.21,22 October 2011 Washim
77.	Delivered invited talk in National Conference on Advances in Microbial Biotechnology and Interdisciplinary Approaches held at Moolji Jaitha College Jalgoan, January 27 - 28, 2012
78.	Attended and participated in International Conference on Technological challenges in developing Affordable In-Vitro Molecular Diagnostics held at Navi Mumbai from 11-14 March 2012 organized by Yashraj Research Foundation & MGM Deemed University.
79.	Attended and Chaired the session in National Conference of Innovative Research Trends in Biological Science. (NCIRTBS- 2012) September 8-9, 2012.orgnized by Department of Botany, Shri Shivaji College, Akola.
80.	Delivered invited talk & Chaired the session in National Conference on Advances in Microbial Biotechnology and Interdisciplinary Approaches held at Moolji Jaitha College Jalgoan, January 23-24 January 2013.
81.	Organized and attended one day work shop on IQAC Awareness programme held at Shri Shivaji College,Akola in collaboration with SGB Amravati University,Amravati on 12 th March 2013.
82.	Attended and Participated in the Physical Education Teachers Conference held at Shri Shivaji College of Arts,Commerce and Science,Akola,March 17 th 2013.
83.	Attended and Participated in One Day Workshop on “ The Role of Internal Quality Assurance Cell for the Sustenance and Enhancement of Quality in Higher education” held at Shri Shivaji College of Arts,Commerce and Science,Akola,September 8 th 2013.
84.	Attended and Chaired the session in National Conference on “ Environmental impact and organism response” organized by Department of Zoology, Shri R. G. Rathod Arts & Science College, Murtizapur, Dist. Akola. (MS) on September 27 th & 28 th , 2013.
85.	Attended and Chaired the session in “International Conference on Role of Plant Biochemistry and Biotechnology in food and Nutrition security” and 12 th conventional of the Indian Society of Agricultural Biochemists, Kanpur December 11- 14, 2013.
86.	Attended State level Microbiology Students summit “ Pure for better health” organized by the Berar general education societies’, Shri RLT college of Science Akola , Department of Microbiology in collaboration with Microbiologist society, India and Sant Gadge Baba Amravati University , Amravati.10 th October 2013.
87.	Attended UGC sponsored State Seminar on Exploration of Biochemistry and Molecular Biology for betterment of Human life. Organized by Arts and Science college, Pulgaon. 29 th January 2014.
88.	Chaired the session in National seminar on Environmental conservation and sustainable development: Policies for our safe future. Sponsored by UGC, New Delhi organized by Department of Zoology, Saifia College, Bhopal. 25 th & 26 th March 2014.

89.	Attended One day International Conference for students on “Modern Aspects in Microbial Sciences” 3 rd January, 2015, Shri Shivaji College, Akola.
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Participation in Orientation/Refresher Courses/Workshop

- (a) Participated in UGC Sponsored Orientation Programme arranged by Aligarh Muslim University, Aligarh, from 6th Oct. to 8th Nov. 1988.
- (b) Attended and participated in UGC sponsored “Refresher Course in Biochemistry” conducted at Chemistry Dept. of Poona University, Pune, from 3rd June to 30th June, 1990.
- (c) Participated in a 3-week professional Development Programme entitled “Refresher Course in Biochemistry Code Biochem-4” conducted by the center for Professional Development in Higher Education, University of Delhi, Delhi from March 28th to April 16th 1994.
- (d) Participated in a Workshop on “Basic Methodology in Isolation & Characterization of Lactins” held at the Division of Biochemistry, Dept. of Chemistry, University of Pune, Sponsored by DST, from 5th to 9th Feb. 1996.
- (e) Participated in the National Symposium cum Workshop on “Disease Diagnostics” held between 25th to 29th Oct. 1997, Organized by Dept. of Biochem. Nagpur University in connection with, Golden Jubilee Celebrations.
- (f) Successfully completed the “Refresher Course in Biochemistry” (Govt. of Maharashtra Sponsored Crash Programme) conducted by Academic staff College, Nagpur University, Nagpur from 22-6-98 to 15-7-98.
- (g) Attended Workshop on Techniques in Modern Biology, Organized by Deptt. of Biotechnology, Amravati University, Amravati, from Dec. 26th to 30th 2001.

Publications

- (1) Mechanism of Estrogen induced inhibition of Hepatic Microsomal Cytochrome P450 linked Monooxygenase. H.S. Hnafi, H.C. Gursahani, Z.H. Khan and S.S. Pawar, Proc. Symp. Cellular Control Mechanism BARC, Bombay, 1982, p.p. 90-95.
- (2) Evaluation of Abana Therapy in Anxiety Complex Syndrome with special reference to Vanillyl Mandelic Acid (VMA) as a marker of assessment S.H. Talib, M.D., F.C.A.I., F.R.S.H. Associate Professor of Medicine and Z.H. Khan M.Sc. (Biochemistry), Biochemist in Dialysis. Dept. of Medicine, Medical College, Aurangabad. Probe. Volume XXV, No. 2, January to March 1986, p.p. 147-150.
- (3) Contact Allergy due to Parthenium Hysterophorous (Congress Grass) A.V. Gaikwad and Z.H. Khan. The Indian Practitioner Vol. XL No. 7, July 1987, p.p. 499-502.
- (4) Demonstration of streptococcus mutans in saliva of Caries & Non caries in children of 5-6 years age group. Y.A. Ali, Z.H. Khan & N.J. Chandranee. The Indian Practitioner, Vol. XL VIII, No. 10, Oct. 1995, p.p. 923-928.
- (5) Prevalence of Dental Caries in Nursery School Children of Akola City. Ali Y.A.; Chandranee N.J.; Wadher B.J.; Khan A. and Khan Z.H., J. Indian Soc. Pedo. Prev. Dent. 1998, 16:1:21-25
- (6) Relationship between caries status, colony forming units of streptococcus mutans and synder caries activity test. Ali Y. A.; Chandranee N. J.; Wadher B. J.; Khan A. and Khan Z.H., J. Indian Soc. Pedo. Prev. Dent. 1998; 16:2:56-60.
- (7) Isolation and Biochemical characterization of Streptococcus mutans causing Dental Caries in Children of Akola City. Ali Y. A.; Wadher B. J.; Khan Aqueel; Chandranee N. J. and Khan Z. H., J. Microb. World, 200, 2(1), p.p. 9-13.
- (8) “Effect of Pyrethriod treatment on the level of detoxifying enzymes in National pest Helicoverpa armigera”. Z. H. Khan, R. B. Rajurkar, Toxicology, Vol. 164, Nos. 1-3, July 8th, 2001, p.p. 88-89.

- (9) Studies on glutathione S-transferase from the national pest (*Helicoverpa armigera*), R. B. Rajurkar, Z. H. Khan, Toxicology, Vol. 164, Nos. 1-3, July 8th 2001, p.p. 88-89.
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Participation in Extra Mural activity

1) Extra Curricular activities:

- a) Arranges various programmes for Departments, Students like Wel-come party, Send off party etc.
- b) Helps in College beautification and premises development.
- c) Works in College social gatherings.
- d) Coordinator- Research Activities Committee.
- e) Coordinator- Student Council Election.
- f) Coordinator-Minor & Major Research Projects.
- g) Coordinator -Career Oriented Programmes in Clinical Lab Technology.
- h) Member-NAAC Steering Committee.
- i) Member-UGC Interphase Committee.
- j) Member- College Purchase Committee.

2) Service to community extension:

- a) Organized mega blood donation camp in collaboration with KEM Hospital, Mumbai and Main Hospital, Akola in July 2004. 500 bottles of blood were collected.
- b) Incharged Blood Donation Activity of college. Arranges Blood Donation programme in Collaboration with Main Hospital/Medical College, every year.
Established Clinical laboratory in Dept. of Biochemistry for Consultancy service. In this laboratory consultancy services are provided by checking blood samples.
- c) Arranges Blood Grouping Camps regularly every year in college for students.
- d) Arranged Blood donation camp in collaboration with NSS & Yuvashakti on 25th Dec.2008.
- e) Arranged Diabetic Detection Camp for staff--free of cost.
- f) Arranged Blood Grouping Camp for college and school students--free of cost.
- g) Provide Blood Donors to needy persons.
- h) Conducts diabetic detection camp for staff members.
- i) Serves to relief of City people during extracalamitties like flood, Drought, Riots etc.
- j) Incharge- Blood Donation & Blood Grouping Committee.

Help rendered in college administration by membership of various committees:

- 1) Member of Under Graduate college admission committee.

- 2) Member of P. G. college admission committee.
- 3) Chairman, Students attendance committee.
- 4) Member, College purchases committee.
- 5) Member of committee for University correspondence and communication.
- 6) Chairman, Departmental time-table committee.
- 7) Coordinator Research Activities Committee.
- 8) Election Commissioner to Student's Representative Council Election.

Membership in University bodies/Professional associations

- a. Chairman Board of Studies in Biochemistry, Amravati University from 1/4/1987 till 1990.
- b. Member of Academic Council of Amravati University from 1/4/1987 to 31/3/1990.
- c. Member of Faculty of Science and Board of Studies in Biochemistry from 1/4/1990 till date.
- d. Member of RRC of Amravati University since 1995.
- e. Member, Subject examination committee
- f. Member of Sub-committee of Board of studies in Biochemistry and including microbiology for revision and preparation of syllabi as per UGC guidelines.
- g. Member of Board of studies in Biochemistry in Kashmir University, Shrinagar.
- h. Member of Board of Studies in veterinary Biochemistry & clinical Biochemistry of Maharashtra Animal and Fishery Science University Animal, Nagpur.
- i. Member of Society of Biological Chemist, India.
- j. Member of Association of Microbiologist of India.
- k. Member of Indian Society of Agricultural Biochemistry.
- l. Ex. Director Service to Youth, Rotary Club of Akola East.
- m. Member, Institutional Animals Ethics Committee, PG Institute of Vet. & Animal Sc. Akola.
- n. Membership of Editorial Board of following Journals:
 1. Bioscience Biotechnology Research Communications, ISSN: 0974-6455
 2. Deccan Current Science. ISSN: 0975-3044

Honors and awards

- a) International travel award was granted by world congress of Pharmacology to attend conference in San Francisco, America
- b) Invited as subject expert for selection of Lecturers in Medical Colleges by J & K Public service Commission, Jammu in Feb.2009
- c) Invited for Consultation by R &D of Saudi Pharmaceutical, Buraidha, Saud Arabia (UAE) in July 2009.
- d) Honored and Awarded with "Fellowship of Indian Association of Agriculture Biochemists" on 12th December 2013 during "International Conference on Role of Plant Biochemistry and Biotechnology in food and Nutrition security" and 12th conventional of the Indian Society of Agricultural Biochemists, Kanpur December 11- 14, 2013.
- e) Honored and Awarded with " Sewa Gauraw Puraskar" by Honourable Vice Chancellor of SGB Amravati University Dr. Jaikiran Tidake on 1st May 2014.
- f) Receive "Gaouravpatre" on behalf of Principal from Govt. Medical College & General Hospital for organizing Blood donation camp during "Blood donation awareness Month" between 1st – 31st Oct.2014.

Teaching Method Applied

- 1) Distributing Lecture Synopsis and notes.
- 2) Encouraging short answer type question in the class
- 3) Holdings seminars on topics from syllabus
- 4) Use of Audio-Visual Aids like Charts, Overhead Projectors, LCD, etc.

Examinership

Regular examiner for SGB, Amravati University, Shivaji University- Kolhapur, University of Pune- Pune, Dr. BA Marathwada University- Aurangabad and Kashmir University- Srinagar (J.K.) as external examiner, paper setter, valuer and Ph.D. Referee

Other Contribution

1. Teaching Methods

Simple approach of teaching is adopted to make topic easy for understanding by using Models, various charts when ever necessary.

2. Evaluation Technique

Questions are asked during discussion of the topic. Unit tests, terminal and college annual examination is conducted both in theory & practical, which helps in evaluation of the students.

3. Course Development

Being member of Syllabus Committee of Amravati University developed syllabi of U.G. and P.G. Biochemistry course.

Other Information on Career Growth

- 1) Involved in the guidance of nine research students for their Ph.D. work.
- 2) Conducted technical session of UGC sponsored National Conference on "Ethnobotany, Biodiversity and Conservation", Organised by Department of Botany, Shri Shivaji College, Akola from 18-19th January 2003.
- 3) Conducted viva voce for Ph.D. degree of several student from various universities like B.A. Marathwada University, Aurangabad, Pune University Pune, R. T. M. Nagpur University Nagpur, and Shivaji University Kolhapur.
- 4) Organised two days National Conference on "Biotechnology for Better Tomorrow (NCBBT2010)" sponsored by UGC, DST and CSIR as Convenor, in February 2010 in Department of Biochemistry Shri Shivaji College Akola.
- 5) Delivered lectures on 25/3/2011 in UGC Sponsored Refresher Course in Life Science held during 10th March to 27th March 2011 Organized by UGC Academic Staff College, SGB Amravati University, Amravati.
- 6) Delivered lecture on 1-12-2011 in UGC sponsored refresher course in Environmental Science held during 15 Nov-5 Dec 2011 organized by UGC Academic Staff College, SGB Amravati University, Amravati.
- 7) Delivered invited talk in National Conference on Advances in Microbial Biotechnology and Interdisciplinary Approaches held at Jalgoan, January 27 - 28, 2012.
- 8) Delivered two lectures on 16/02/2012 in UGC sponsored Refresher Course in Life Science held during 09th to 30th March 2012 Organized by UGC Academic Staff College, SGB Amravati University, Amravati.
- 9) Delivered lectures on 6/10/2012 in UGC Sponsored Refresher course in Environment Science (I.D.) held during 24th September 2012 to 15th October Organized by UGC Academic Staff College, SGB Amravati University, Amravati.
- 10) Delivered two lectures on 19th & 21st July 2014 to students of Navodaya Vidyalaya, Babhulgao, District Akola.

- 11) Delivered talk on “Preparation on Power Point Presentation” as a Resource Person in “ART in Education Workshop on student seminar” at Jawahar Navodaya Vidyalaya, Akola from 17th -31st July 2014

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