



Estd. 1892

INTERNAL QUALITY ASSURANCE CELL Khalsa College Amritsar

An Autonomous College affiliated to G.N.D.U., Amritsar
UGC Letter No. F. 22-1/2013 (AC) Dt. 22-05-2013

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◆ A HERITAGE INSTITUTION AND COLLEGE WITH POTENTIAL FOR EXCELLENCE - Status conferred by UGC ◆

◆ NAAC REACCREDITED "A" GRADE (CGPA) ◆ STAR STATUS CONFERRED BY DBT, NEW DELHI • AN ISO CERTIFIED COLLEGE ◆

Dr. Taminder Singh
Director

No. _____

Dated _____

Annual Summary Report (2022-23)

The Internal Quality Assurance Cell (IQAC) of Khalsa College Amritsar has been an integral part of the college's commitment to conscious, consistent, and catalytic improvement in its overall performance. The IQAC initiates the quality enhancement initiatives in higher education, assisting the institution in planning and monitoring its progress. Furthermore, the IQAC encourages cross-sectional participation from stakeholders, including students, teachers, parents, alumni, funding agencies, and the community, in the college's quality enhancement activities.

Throughout the academic year 2022-23, the IQAC implemented various quality initiatives to promote excellence and development. These initiatives included:

Preparation of the Self-Study Report (SSR): The IQAC is in the process of preparation of the Self Study Report for fourth cycle of accreditation to NAAC, Bangalore.

Student Enrichment Programmes

(i) **Student Induction Programme:**

During the Student Induction Programme, various college departments organized interactive talks and seminars, empowering students with vital skills and knowledge. The P.G. Department of Food Science and Technology hosted multiple events to boost employability in the food sector. A seminar on "**Enhancing Employability Aspect in Food Sector**" was held on September 8, 2022, with collaboration from IBT Institute Pvt. Ltd., Amritsar. Keynote speakers, Mr. Jatinder Kumar and Mr. Jatin Mohan Sharma, shared tips and tricks for competitive exams, discussing career prospects in government, semi-government, and private food sectors. An extension lecture on "**Competition Combat**" took place on February 14, 2023, sharing strategies and career insights. Another seminar on "**Global Learning Competence in Food Technology**" on February 22, 2023, associated with IDP Amritsar, explored pursuing higher education


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and internships in food science. Meanwhile, the Training and Placement Cell organized ^{Dated} _____ workshops and webinars on employability and competitive exam strategies. The P.G. Department of Commerce and Business Administration organized an Orientation program and Career Counseling event, while the Chemistry Department held an Orientation program and an informative lecture by Dr. Navneet Sahota on US career prospects. Additionally, there were webinars and workshops conducted by the Training and Placement Cell on various career aspects.

(ii) Curriculum Development:

The curriculum development process involves active participation from various stakeholders, including the department faculty, Board of Studies (BOS), College Governing Body, and Academic Council. These entities collaborate to design and update the curriculum, ensuring its relevance and alignment with industry standards and academic requirements. The Academic Council and Governing Body have resolved to implement NEP 2020 wef the academic session 2023-24. An extensive exercise is going on for smooth implementation of NEP.

(iii) Introduction of New Courses and value added courses:

In the B.Voc. (Software Development) program, courses like "Software Project Management and Business Solution," "Software Re-engineering," and "Software Testing & Quality Assurance" were introduced, along with practical labs. Similarly, the B.Sc. (Artificial Intelligence & Data Science) program introduced courses like "Basics of AI & Data Science," "Big Data Analytics," and "Introduction to Neural Network," accompanied by relevant labs. The B.Voc. (Textile Design and Apparel Technology) program added courses in "Enterprise Management," "Eco Textiles and Sustainable Clothing," and "Portfolio Development," among others, along with practical components. The B.Voc. (Food Processing) program incorporated courses such as "Spices and Flavor Technology," "Food Additives," and "Food Analysis," accompanied by experimental components. The B.Sc. (Hons) Mathematics and M.Sc. (UHS) Mathematics programs introduced courses like "Probability theory," "Linear Programming," and "Mechanics." The B.A. program introduced advanced courses in probability and statistical inference. The B.Sc. (Non-Medical) program incorporated Ability Enhancement Papers in Computer Science. Lastly, the B.Voc. (Theatre and


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Stage Craft) program introduced a variety of theory and practical courses, covering ^{Dated} _____ topics such as theatre creativity, film appreciation, and event management. These new courses have significantly enriched our academic offerings, providing students with a wider array of knowledge and skills to pursue their academic and career goals.

The Skill Development Centre has been recognized as Skill Hub under PMKVY 4.0 by NSDC, government of India. Three new skill courses have been introduced under this programme. Also the Skill Development Centre has got affiliation from JGBN Open University, Punjab. The centre will offer seven Skill Course in online mode.

(iv) **Introduction of value added courses:**

During the academic year 2022-23, our institution introduced an array of value added courses aimed at enriching the curriculum and providing students with a wide spectrum of learning avenues. These courses spanned various disciplines: In the field of Agriculture, students had the opportunity to explore courses such as Agriculture Produce, Nursery Management, Seed Production Technology, and Waste Management. The department of Biotechnology introduced subjects like Basics of Bioinformatics, Intellectual Property Rights, Biotechnology Laboratory Practices, and Instrumentation Techniques. The Botany department offered courses in Herbarium Techniques. For those interested in Chemistry, there were courses focusing on Computer Software Applications, Lab Practices, Instrumentation, Food Adulteration, and Water Quality Analysis. The Commerce domain featured training in Computerized Accounting Software such as Tally and Busy, along with Data Analysis and Interpretation. Aspiring entrepreneurs could enhance their skills through the Entrepreneurship program. The Computer Science students delved into topics like Computer Hardware, Cloud Computing, Cybersecurity, R programming, and Web Designing. The Department of Economics offered courses tackled Contemporary Issues in Punjab Economy. The English courses covered Book/Film Review, Creative Writing, Competitive Exam Preparation, Grammar, Vocabulary, Spoken English, and Pronunciation. Fashion Designing enthusiasts had access to courses in Cosmetology and Textile Printing Techniques. The Fine Arts department provided foundational courses. The Food Science and technology featured Safe Food Handling and Food & Vegetable Processing courses. Geography covered Disaster Management. The History students


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explored Historiography. Journalism and Mass Communication included Content Writing and Social Media courses. Dated _____

The Department of Mathematics introduced value added courses like Mathematical Writing using Latex and Vedic Mathematics. Music courses encompassed Tabla, Harmonium Techniques, and Indian/Western Music Systems. The Physics courses focused on CRO Fundamentals, Data Analysis with Excel, Digital Storage Oscilloscope, Spreadsheet Simulations, Thin Film Deposition, and UV-Visible Characterization.


The Department of Physiotherapy introduced Workplace Ergonomics and Fitness Training. Political Science covered Human Rights and Legal Literacy. The Psychology department introduced Basic Counselling Skills, Time and Stress Management. Language courses included Gurbani Adhiyaan, Introduction to Urdu, and Translation in Punjabi and Hindi.

Skills were enhanced through Certificate Courses in Computerized Accounting Software and Web Designing. Sociology courses included Sociology of Gender. Theatre enthusiasts explored Mime, and Zoology included Vermicomposting. These diverse value-added courses aimed to provide a comprehensive and enriched educational experience to students during the academic year 2022-23.

Faculty Enrichment Programmes

(i) **Faculty Development Programme (FDP):**

Under the UGC-CPE grant, the IQAC organized a Faculty Development Programme from January 2-9, 2023. Over 150 teachers participated in the program. Esteemed resource persons, including Prof. Raminder Kaur, Prof. P.S. Judge, Prof. S.S. Dhillon, Prof. H.S. Bhatia, Dr. Taminder Singh, Dr. Inderjit Singh Gogoani, and Dr. Jaspal Singh, delivered sessions on various issues and challenges faced by society. The program aimed to enhance the pedagogical skills and knowledge of the faculty members. The program successfully provided faculty members with the tools and techniques to address the evolving educational landscape and effectively meet the challenges faced by society. The faculty from the college who participated in FDP were exempted from the registration fee.


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- (ii) **Workshops for Faculty members:** The IQAC, in collaboration with the PG Department of Chemistry and Schrodinger Inc., organized a “**Schrödinger Software**” workshop on August 8th-9th, 2022. The Faculty gained hands-on training in computer aided drug design (CADD). The workshop, led by Dr. Prajwal Nandekar and Dr. Koushik Kasavajhala, included Maestro usage for organic molecule sketching, protein preparation, and hit identification against therapeutic targets. Dr. Prajwal Nandekar, with postdoctoral experience in molecular modeling, and Dr. Koushik Kasavajhala, a Senior Scientist I at Schrödinger GmbH, provided insights. Participants delved into molecular docking, Ligand Preparation, and Protein preparation, imbibing drug discovery principles. The workshop incorporated theory on Molecular Mechanics, Docking Analysis, Molecular Dynamics, QSAR, through real-time industrial case studies.
- (iii) **Faculty Enrichment Programme:** The IQAC, in collaboration with the Department of Chemistry at Khalsa College, Amritsar, organised a faculty enhancement initiative centered on the theme “**Trends of Technology in Teaching.**” The event took place on August 1st, 2022, featuring Dr. Mandeep Singh Bakshi as the distinguished keynote speaker. Dr. Bakshi, an accomplished Associate Professor at the University of Wisconsin, Green Bay, brought his expertise to the forefront, emphasizing the integration of technology for advanced pedagogical methods. His address highlighted the capacity of technology to foster collaborative learning, student engagement, and the assessment of learning outcomes. In a parallel event, the IQAC collaborated with the P.G. Department of Chemistry at Khalsa College, arranged faculty interaction session with Dr. Meena Sharma, Senior Vice President at Stoke Therapeutics in the USA. Dr. Sharma, an esteemed alumna of the department's 1994-96 batch, candidly shared her personal journey, illuminating the instrumental role Khalsa College played in shaping her career trajectory. Through her insightful narrative, Dr. Sharma conveyed the challenges she encountered on her path and the strategies she employed to surmount them. This interaction offered faculty members a unique vantage point into Dr. Sharma's experiences, providing them with invaluable insights and fostering a deeper understanding of the array of opportunities within the realm of chemistry, particularly in the biotechnology sector.


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Moreover, the IQAC in collaboration with the Department of Commerce and Business Administration organized a visit to "Sadda Pind" as part of their Faculty Enrichment Program on February 4th, 2023. The aim was to immerse faculty members in the nostalgic ambiance of Punjab's bygone era, contributing to their holistic enrichment and cultural appreciation.

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Research and Innovation

(i) **Seed Money for Research:**

In the 2022-23 academic year, 12 teachers at Khalsa College were awarded seed money for their research projects. The recipients and the respective grant amounts include Dr. Mehal Singh (Punjabi), Dr. Taminder Singh (Physics), Dr. Avtar Singh (Commerce), Dr. Deepak Devgan (Commerce) Dr. Kultar Singh (Chemistry), Dr. Kuldip Singh (Punjabi), Dr. Sawant Singh Mantoo (English), Dr. Mani Arora (Computer), Dr. Gurbax Singh (Agriculture) Dr. Inderjit Singh Gogoani (Sikh History & Research), Dr. Zorawar Singh (Zoology), Dr. Manohar Singh Batra (Chemistry), Dr. Iqbal Singh (Physics)

These grants were provided to support their research initiatives and facilitate further exploration and advancement in their respective fields.

(ii) **Research Publications:**

In the academic year 2022-23, a total of 90 research papers were published by the faculty at Khalsa College.

(iii) **Research funding received by the institution and its faculties through Government and non-government sources:**

During the academic year 2022-23, Dr. Mehal Singh and Dr. Atam Singh Randhawa, secured a grant from Ravi Sahit Parkashan for the PG Department of Punjabi. Dr. Jaswinder Singh, from the PG Department of Zoology at Khalsa College Amritsar, acquired funding from the Society for Mission Tandarust, Punjab—a significant accomplishment in the realm of government-funded initiatives.


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Scholarship to Students

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In the academic year 2022-23, a total of 980 students from the college received scholarships under the Post Matric Scholarship Scheme initiated by the Punjab Government. The students were awarded Institutional Scholarships and Freeships also. Furthermore, 101 students benefited from NGO Scholarships, while 22 students were recipients of Philanthropists Scholarships.


Funds received from Philanthropists

In the year 2022-23, the college received Rs. 3,54,035/- from various Philanthropists and Rs.7,04,050/- from NGOs.

Industrial Trainings/Internships/On-the Job Trainings

During the academic year 2022-23, Khalsa College Amritsar facilitated numerous students in participating in a wide range of industrial training programs, internships, and on-the-job training opportunities. These experiences were enabled through collaborations with a multitude of esteemed organizations. Notable collaborators included The Ajnala Co-operative Sugar Mills Ltd, Agriculture and Farmers Welfare Punjab in Amritsar, Markfed in Amritsar, the Department of Horticulture in Amritsar, Punjab, and National Fertilizers Limited in Chandigarh, among others.

The students had the privilege of engaging with diverse entities such as Verka, Gurdaspur, The Amritsar Central Co-operative Bank Ltd, Wave Beverages in Amritsar, Acentric Biotech in Sahibzada Ajit Singh Nagar, and Pioneer Industries Private Limited in Pathankot. These collaborations extended to healthcare institutions like Amandeep Hospital and Amandeep Medicity in Amritsar, Atlantis Hospital, and Navpreet Hospital in Amritsar, Ranjit Hospital in Amritsar, and Azba Physio Care in Amritsar. The opportunities also extended into the realm of media and communication, with collaborations with outlets like Scroll Punjab, 9.3 MY FM, Public Dilasa, IBN7, Punjabi Yard, ASCL, Daily Post, KCGC TV, The Summer NEWS, PTC NEWS Delhi, Fine Touch Music, and 94.3 My FM. Additionally, cooperative societies like Cooperative Milk Producers Union Ltd. in Verka, Amritsar Dairy, and Verka Gurdaspur Dairy in Gurdaspur were part of this initiative. The


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college's collaboration efforts extended to numerous businesses including Amarinder Medicos, Aptech Learning, Rapid Infotech, Dieu Hotel, VMM Education, GKR Bus Service (Regd), Eldorado Restaurant, Bhullar Enterprises, Perti Tutorials, Liberty Mall, Goyal Apparels, and many more across various sectors. The diverse nature of these partnerships showcased the breadth of experiential learning opportunities provided to the students of Khalsa College Amritsar during that academic year.

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Submission of Reports:

The IQAC has prepared and submitted the following reports to the concerned agencies in the session 2022-23.

- (i) National Institutional Ranking Framework (NIRF)
- (ii) All India Survey on Higher Education (AISHE)
- (iii) Annual Quality Assurance Report

Feedback Analysis

The IQAC took feedbacks from various stakeholders and analysed it. The Alumni endorsed the induction of new programs and shared their views about the curriculum's relevance in developing student skills. They also rated the courses as beneficial for overall personality development and fostering entrepreneurial and leadership skills. Library facilities and internet facilities are upto the mark. Teachers recognized the balance in the syllabus and appreciated the curriculum's scope for skill development. Employers acknowledged students' interview and communication skills and found the syllabus relevant to employment needs. Students expressed interest in the syllabus, satisfaction with learning resources, and the relevance of course-related activities. The feedback analysis enabled the college to identify strengths and areas for improvement, facilitating informed decision-making and enhancing the learning experience for stakeholders.


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IQAC Meetings

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The meetings of Internal Quality Assurance Cell were held on 2.7.2022, 17.12.2022 and 25.3.2023 during the session 2022-23. The implementation of NEP 2020 from session 2022-23 was discussed in these meetings and recommended to Academic Council for adoption. Also it was recommended by the IQAC to adopt CBGES from session 2023-24 across all programmes. The Academic Audits were also discussed in these meetings


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