

Criterion 7.3.1 portrays the performance of the Institution in one area distinctive to its priority and thrust within 1000 words



Estd. 2009

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ਖਾਲਸਾ ਕਾਲਜ ਆਫ ਫਾਰਮੇਸੀ
Khalsa College of Pharmacy

Ph: 0183-2450215

G.T. Road, Amritsar 143002

Web: www.khalsacollegepharmacy.org

Approved by AICTE, PCI, New Delhi & Punjab Govt. Affiliated to PTU, Kapurthala, PSBTE & IT, Chandigarh

The **Student Centric Tradition** is the distinctiveness of the college. The college is committed to a culture of quality enhancement through a continuous process in all its endeavors for the benefit of the students. Following are the arenas of Student Centric culture in the institution that makes it distinctive. Creating a student-centric tradition in our institution ensure a holistic approach that prioritizes the needs and well-being of students. Here are some key components and strategies to foster a student-centric tradition:

1. National Board of Accreditation (NBA)

- a. Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment is planned to achieve stated objectives and outcomes. It focuses on measuring student performance.
- b. Khalsa College of Pharmacy is the second college in Punjab to achieve accreditation from the esteemed National Board of Accreditation (NBA).
- c. The Khalsa College of Pharmacy has made history as the first NBA-accredited college in the region.
- d. For five years, Khalsa College of Pharmacy has rigorously developed question papers, lab manuals, and course materials aligned with Bloom's Taxonomy to foster advanced cognitive skills in students.

2. Student-Centered Curriculum:

- a. Offer a variety of elective courses or specializations to cater to diverse student preferences.

3. Accessible Faculty and Staff:

- a. Ensure that faculty and staff are approachable, responsive, and available to provide academic and personal support.
- b. Establish open-door policies to encourage students to seek help and guidance.

4. Information and communication technology (ICT)

- a. College encompasses sufficient number of well-furnished, well ventilated, spacious classrooms equipped with LCD projectors for conducting theory classes.
- b. The entire college is Wi-Fi enabled internet facilities to the students and staff.





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5. Library/ e Library

- a. The library assumes a critical part in bestowing education; it is the asset center point for knowledge. The library of Khalsa College of Pharmacy has important role in supporting higher education as well as research activities in Pharmacy. The library is furnished with reprographic facilities for the convenience of the students and staff.
- b. The college has a large, well-stocked Library with more than 5600 books with different sections made department wise.
- c. The library is a Digital Library with internet facility for students inside the library.
- d. The library has a separate, peaceful reading room in which 60 students can read at a time.
- e. Separate e-library is additionally accessible with facilities viz., e-journals, e-books etc., to facilitate national and international networks and libraries for sharing of data and records.
- f. Separate reference books are maintained for students and staff. Library has a free access network for the students where they can pick the book that is needed by them for issue. Library has a collection of official compendia viz., Indian Pharmacopoeia, British Pharmacopoeia, United States Pharmacopoeia and Matrintdale.
- g. The library gives facilities for self-study, research information collection and assemblage. Newspaper stand for daily newspaper reference is mounted and updated daily.
- h. Question papers of Sessional and University Examination are accessible for as far back as 10 years for students' reference. All books are bar coded and a reference ID is given. The issues and returns are also digitized.
- i. There is a different section reference area for Books, Journals, Thesis of M. Pharm and B. Pharm and Pharm. D projects were accessible in the library.





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6. Khalsa Diagnostic Laboratory (KDL) and Khalsa Testing Centre

Khalsa Diagnostic Laboratory (KDL) facility, which offers a range of body profile assessments. Furthermore, the institute possesses a government-approved Drug testing laboratory for conducting testing of drug samples.

7. Memoranda of Understanding (MoU)

The institute has signed 8 Memoranda of Understanding (MoU) with hospitals and pharmaceutical companies, which facilitate the training of students. One of the Memoranda of Understanding (MoU) has been established with the Amritsar Pharmaceutical Manufacturing Association, comprising a total of 21 manufacturers operating at medium and large scales.

8. Celebrating Achievements:

- a. Recognize and celebrate student achievements in academics, sports, and extracurricular activities to boost morale and motivation.

9. Transparency:

- a. Maintain transparency in administrative processes and policies.
- b. Ensure that students are aware of their rights and responsibilities.

10. Quality Assurance:

- a. Continuously assess and improve the quality of education, facilities, and services.
- b. Seek accreditation and certifications to maintain high standards.

11. Feedback Mechanisms:

- a. Implement regular surveys and feedback mechanisms to gather input from students about their experiences.
- b. Act upon constructive feedback to continuously improve the institution.

12. Personalized Learning:

- a. Recognize that each student has unique learning needs and styles.
- b. Support the use of technology and adaptive learning tools to tailor instruction to individual students.

13. Effective Communication:

- a. Maintain clear and consistent communication channels with students through email, newsletters, and online platforms.
- b. Keep students informed about important dates, deadlines, and campus news.





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14. Scholarship distribution to economically challenged students/minorities groups

The goal of the Scheme is to offer encouragement and monetary support to students from economically disadvantaged backgrounds or minority groups, allowing them to pursue professional and technical courses.





NBA Accreditation

राष्ट्रीय प्रत्यायन बोर्ड

ਬੀਬੀ ਟਾਵਰ, ਫੁੱਲਟ ਟਾਵਰ, ਏਨ. ਡੀ. ਡੀ. ਪਲੇਜ਼, ਭੀਸ਼ਮ ਪਿਟਾਮਾਹ ਮਾਰਗ, ਪ੍ਰਗਤੀ ਵਿਹਾਰ, ਲੋਧੀ ਰੋਡ, ਨਵੇਂ ਡਿਲੀ-110003
NATIONAL BOARD OF ACCREDITATION
4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003



File No. 31-55-2020-NBA

Date: 27.01.2023

To

The Principal
Khalsa College of Pharmacy,
GT Road Amritsar-143001, Punjab

Subject: Accreditation status of UG Pharmacy program applied by Khalsa College of Pharmacy, GT Road Amritsar-143001, Punjab.

Sir,

This has reference to your application Id No. 4601-12/02/2020 seeking accreditation by National Board of Accreditation to the UG Pharmacy program offered by **Khalsa College of Pharmacy, GT Road Amritsar-143001, Punjab.**

2. An Expert Team conducted on-site evaluation of the program from **28th to 30th October, 2022**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No.	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	Pharmacy	January, 2016 Document	Accredited	Academic Years 2022-23 to 2024-25 i.e. upto 30-06-2025	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier.

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted accreditation for 3 years. **Khalsa College of Pharmacy, GT Road Amritsar-143001, Punjab** should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above so as to be eligible for consideration by the concerned Committee in NBA for further processing of the accreditation status.

(Signature)

Contd./_





Memorandum of Understanding with Amritsar Pharmaceutical Manufacturers Association



ਪੰਜਾਬ ਪੰਜਾਬ PUNJAB

AV 322906

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 4th day of October-Two thousand seventeen (04-10-2017)

BETWEEN

Khalsa College of Pharmacy, Amritsar the First Party represented herein by its **Dr. Ravi Kumar Dhawan, Director-Principal** (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

AND

Amritsar Pharmaceutical manufacturers association, (herein after referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

A. First Party is a Higher Educational Institution named:

i. Khalsa College of Pharmacy, Amritsar

B. First Party & Second Party believe that collaboration and co-operation between themselves

ATTESTED as IDENTIFIED

Satish Kumar Anand Notary
 Amritsar



06 OCT 2017

[Signature]

Amit Raker

[Signature]





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List of Companies associated with Amritsar Pharmaceutical Manufacturers Association

S. No	Companies	Location
1	Ramson Remedies	Industrial Focal Point Amritsar
2	Will Mark Pharmaceuticals	Majitha Road Amritsar
3	Estra Pharmaceuticals	Fatehgarh Churian Road ,Opposite Spring dale school, Amritsar
4	Yorks Pharma	Fatehgarh Churian Road, Amritsar
5	Adison Pharmaceuticals	Fatehgarh Churian Rd, Baba Deep Singh Colony, Amritsar,
6	U. V Pharmaceuticals	Batala Road, Amritsar
7	Ocean organics	Mustafabad, Batala Road, Amritsar
8	Systa care pharmaceuticals	Majitha Road, Amritsar
9	Aspen Pharma	Majitha Road, Amritsar
10	Kwality pharmaceuticals	Majitha Road, Amritsar
11	Eden drug	Old jail Road Amritsar
12	Emmwell Pharma	Rampura GT Road Amritsar
13	International Chemical Corporation	Opposite khalsa college, Amritsar
14	Macmillan Pharmaceuticals	Batala Road, Amritsar
15	Medimax Pharmaceuticals	G.T Road Cheharta, Amritsar
16	Instant Pharmaceuticals	Industrial area , Amritsar
17	Jyoti Phoschem	Industrial Focal Point, Amritsar
18	Dhanvarti Pharmaceuticals	Majitha Road, Amritsar

[Signature]



[Signature]

19	Ravenbhel Pharmaceuticals	7, 2, Mail Rd, Kennedy Avenue, Amritsar,
20	Hindustan Pharmaceuticals	Kot Mit Singh, Bagichi Lakha Singh, Amritsar,
21	Prism Remedies	Fatehgarh Churian Road, Amritsar

[Signature]

Witness 1

[Signature]



Witness 2

[Signature]

Witness 3

06 OCT 2017

ATTESTED & IDENTIFIED Witness 4

Salish Kumar Anand Notary Amritsar

[Signature]





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Testing Laboratory Approval

Food & Drugs Administration, Punjab
Near Civil Hospital, Kharar, Sahibzada Ajit Singh Nagar.

To

M/s Khalsa Testing Center,
I/s Khalsa College of Pharmacy, Khalsa College Campus,
G.T. Road, Amritsar.

Memo No. Drugs (1) Pb. 2018 / 992
Dated : 1/11/18

Subject: Grant of Approval of Testing Laboratory.

Reference your application dated 19-8-2016 & 19-1-2018 on the subject cited above & as per recommendation of joint inspection report 7-4-2017 of team of Drugs Inspectors and letter No. 374 dated 17-10-2018 of Drugs Inspector, Amritsar, please find enclosed herewith original approval on following Form.

Form No.	Licence No.	Date of Issue	Valid upto
37	08-Testing-Pb.	1-11-2018	to 31-10-2023

1. You can test only those items for which the permission is given by this office.
2. Items will be tested under the supervision of technical staff.
3. Items will be tested under the provision of Drugs & Cosmetics Act 1940 / Rules 1945.
4. Proper records of test will be maintained under Drugs & Cosmetics Act 1940 / Rules, 1945.

Enclosed: - Approval Copy: 1
Site Plan: 1

Assistant Commissioner (Drugs)-cum-
Licensing Authority,
Food & Drug Administration, Punjab,
Near Civil Hospital, Kharar

No. Drugs (5) Pb. 2015 /

Dated Chandigarh the:
Copy along with enclosures is forwarded to Drugs Inspector
Amritsar for information with reference to his letter No. 374 dated 17-10-2018.

Assistant Commissioner (Drugs)-cum-
Licensing Authority,
Food & Drug Administration, Punjab,
Near Civil Hospital, Kharar





Advance Research Equipment

Drug Testing Laboratory (Govt. Approved)	Industrial Pharmacy Lab	Miscellaneous	Advance Pharmacology & Diagnostic Lab
Differential Scanning Calorimetry	Tablet Punching Machine(10 Stationary)		Elisa Reader
Gas Chromatography		Multi mill machine lab model	Stereo static Apparatus
HPLC	FBD	Double cone blender	NIBP
UV-VIS Spectrophotometer	Emulsifier with 1HP electric moter	Moisture balance	All Purpose Maze
FTIR		Lyophilizer	Rat Pyrometer
Rota Evaporator	Coating pan	Stability Chambers	Langendorff apparatus
Ultra Sonicator	Air compressor		Digital plethysmograph
Probe Sonicator	Sifter (GMP model)		Small Animal ANAESTHESIA Apparatus
Anton Parr Rheometer	Colloidal mill machine		
Brookfield Viscometer	Liquid filling machine semi automatic		





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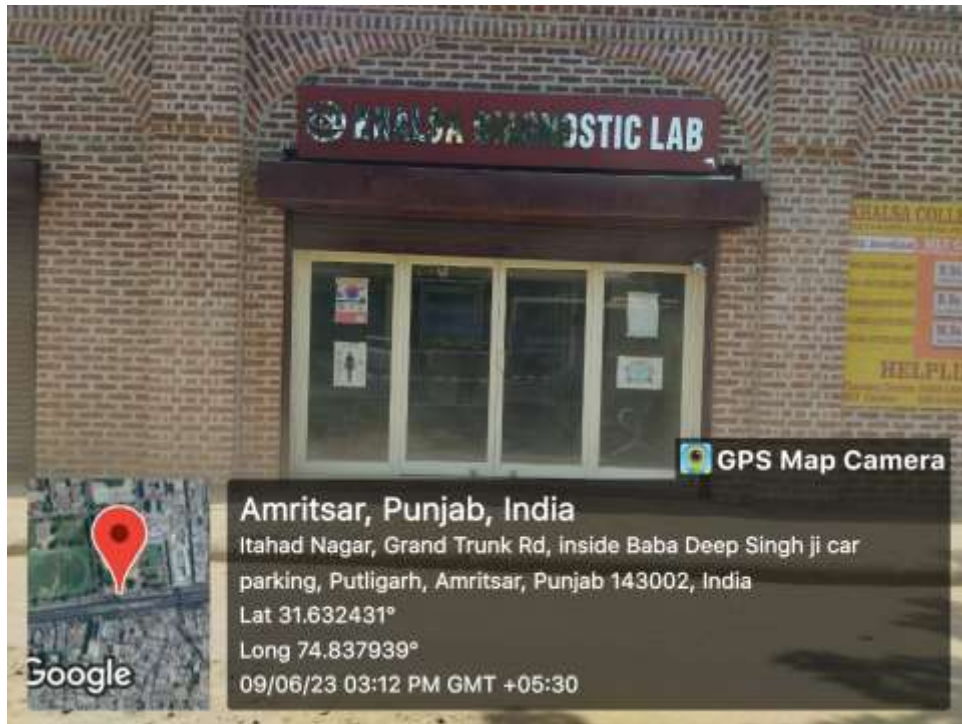
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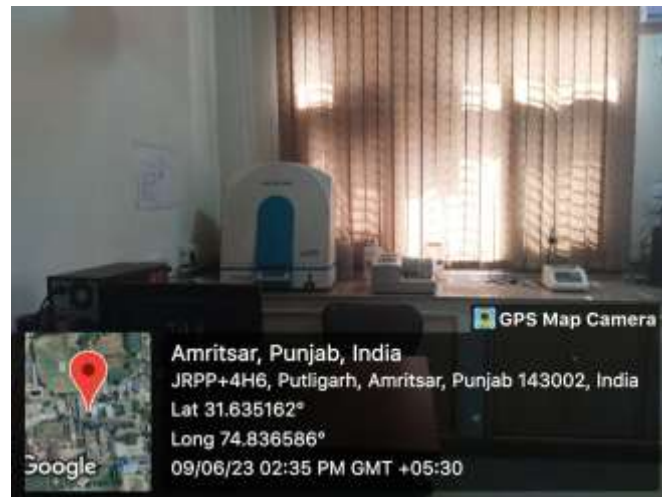
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Khalsa Diagnostic Lab





Research Facility





Lab Setup According to Industrial Requirements





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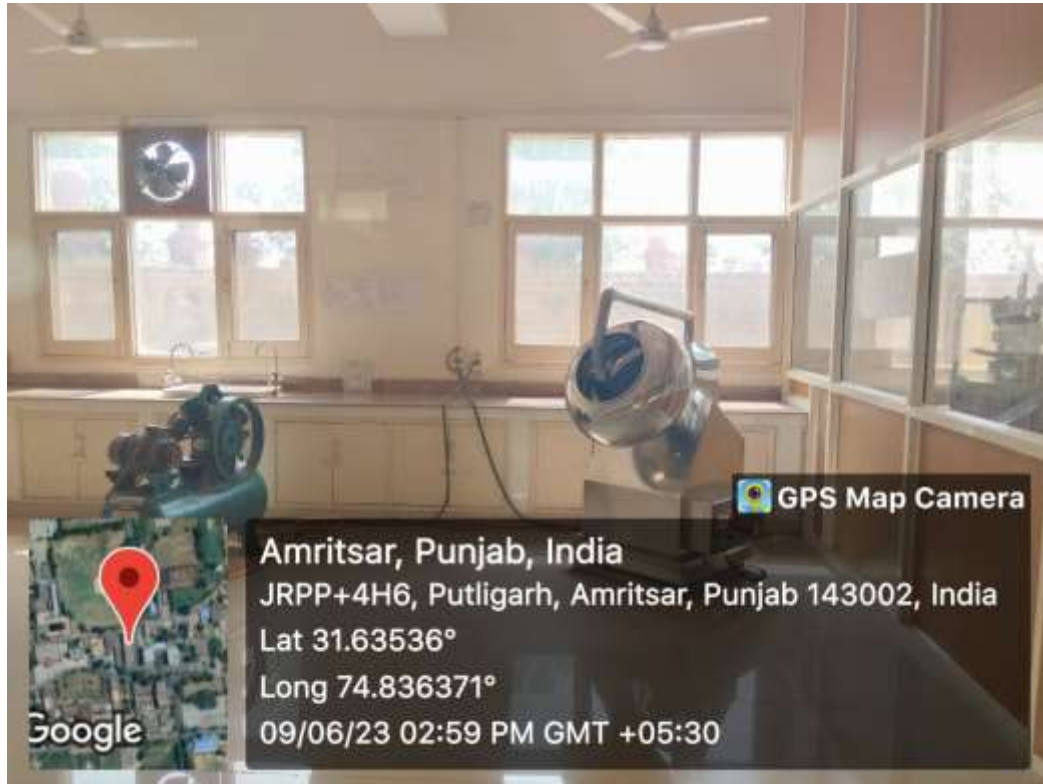
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Lab Setup According to Industrial Requirements



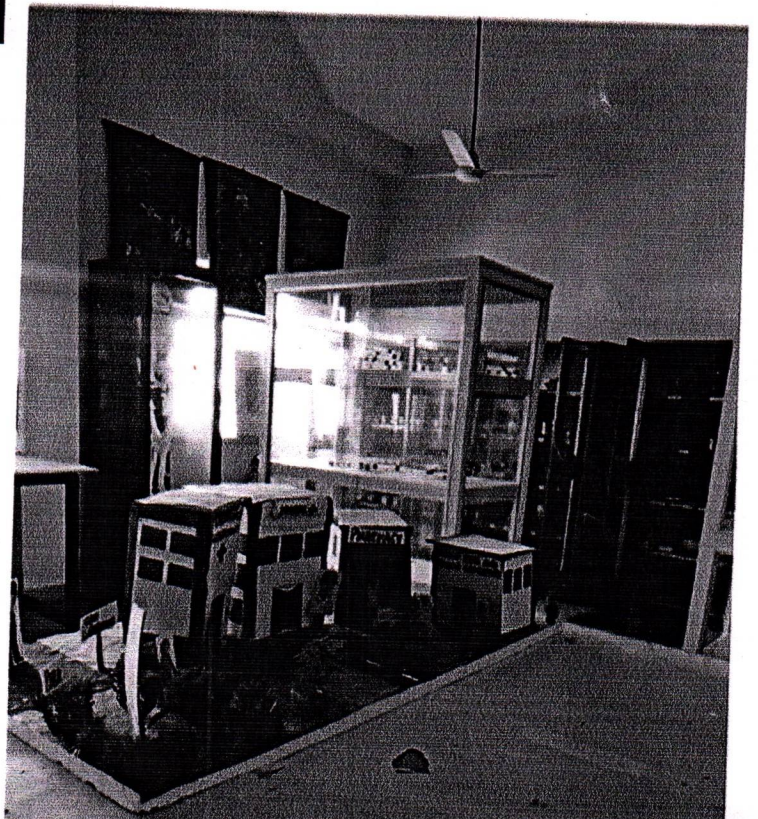


GPS Map Camera



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JRPP+4H6, Putligarh, Amritsar, Punjab 143002, India
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22/03/23 01:01 PM GMT +05:30



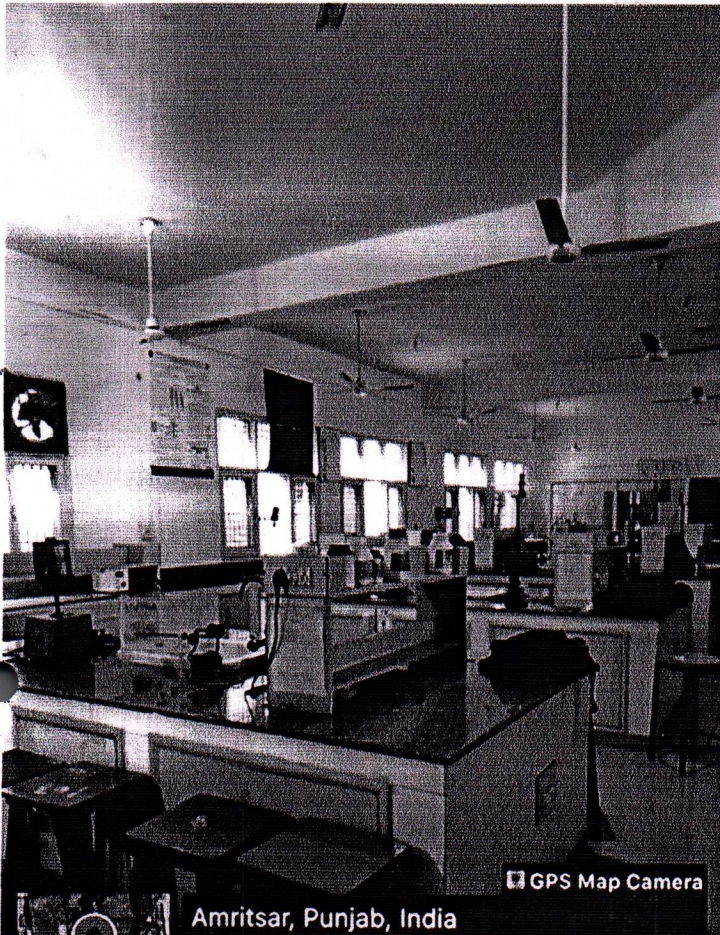
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22/03/23 12:45 PM GMT +05:30



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AMRITSAR



Research Articles

Pharmacogn Res. 2022; 14(2):153-157 Original Article

In-vitro Antioxidant and Anti-inflammatory Potential of *Ficus infectoria* Fruits

Prince Ahad Mir^{1*}, Shreya Mahajan², Ashish Verma³, Nishant Kumar⁴, Manisha Arora⁵, Navneet Nagpal⁶

ABSTRACT
Background: Antioxidants are chemical substances, either synthetic or natural, that can avert or slow down a range of cellular damage. **Objective:** The purpose of this study was to verify the antioxidant and anti-inflammatory properties of alcoholic and aqueous extracts of *Ficus infectoria* fruits. **Materials and Methods:** DPPH free radical quenching test, reducing power technique, and hydrogen peroxide scavenging tests were used to assess antioxidant efficacy. *In vitro* anti-inflammatory experiments were also investigated for membrane stabilization potential and inhibition of proteins from denaturation. **Results:** Fruits included alkaloids, steroids, phenolics, flavonoids, and amino acids, according to phytochemical study. The total phenolic and flavonoid content of the methanolic and aqueous preparations were determined to be 5.91.16 ± 1.29.10 and 416.12 ± 112.01 mg/g Gallic Acid Equivalents (GAE) and 423.17 ± 56.48 and 253.35 ± 24.07 mg/g Folin Equivalents (FE) respectively. In comparison to the benchmarks Rutin and ascorbic acid, both preparations showed significant DPPH and H₂O₂ quenching efficacy. As compared to the standard Indomethacin, both preparations have strong membrane stabilizing and protein denaturation inhibitory potencies. **Conclusion:** The current findings point to *Ficus infectoria*'s antioxidant and anti-inflammatory properties. However, the active ingredients relevant for the activity must be identified and purified, and the exact mechanism must be determined. **Key words:** *Ficus infectoria*, Membrane stabilization, Protein denaturation, Antioxidant, Anti-inflammatory.

INTRODUCTION
 Endogenous defense mechanisms such as catalase system, superoxide dismutase, and peroxidase-glutathione scavange oxygen free radicals produced within human bodies as a result of metabolism and cellular oxidation.^[1] Excessive free radical production is extremely toxic and contributes to oxidative stress that promotes pathological conditions including hypertension, coronary artery disease, cancer, immunosuppression, aging, neurological disorders, diabetes, and others.^[2] Antioxidants are substances that effectively eliminate and obstruct the oxidation of chain processes, thus preventing or delaying the oxidative degradation of other molecules.^[3] Inflammation is just a defense mechanism involving blood vessels, immune cells, and chemical mediators that occurs in response to any illness or stimulation which causes cellular degeneration.^[4] The primary goal of the treatment is to begin tissue repair via eliminating nociceptive cells and other sources of cell damage.^[5] Excessive and persistent inflammation leads to tissue damage, organ failure, and death.^[6] The activation of nuclear factors like AP-1 or NF- κ B, which encourage the production of cytokines, by reactive oxygen species generated within the body, plays crucial role mostly in spreading of infection to multiple organs. Endothelial cells triggered via synergistic action of cytokines and free radicals, resulting in the production of adhesion molecules and inflammatory mediators. Furthermore at the site of inflammation, free radicals involve other cellular components leads to loss of function and even death.^[7] *Ficus infectoria*, often known as Philanthus/white Fig tree, is a member of the Moraceae family. It is an important medicinal plant that is widely spread throughout the world's tropical and subtropical regions. It is a massive deciduous, fast-growing, densely foliaceous tree with a beautifully shaped crown that may reach a height of approximately 20 metres.^[8] The bark of the plant has traditionally been used to treat ulcers and leucorrhoea, as well as to get rid of round worms. The leaves are also used to treat a number of skin conditions. The pharmacologically active elements found from the leaves of *Ficus infectoria* include -amyrin, -myricin, luprol, stigmasterol, and campesterol, furostolins, bergapten, scutellarein, bergapten, scutellarein glucoside and sorbitolins, have also been isolated from the complete plant.^[9-11] The anti-oxidant and anti-inflammatory effects of aqueous and alcoholic preparations of *Ficus infectoria* fruits, as well as phytochemical screening, were investigated in this work.

Cite this article: Mir PA, Mahajan S, Verma A, Kumar N, Arora M, Nagpal N. In-vitro Antioxidant and Anti-inflammatory Potential of *Ficus infectoria* Fruits. Pharmacogn Res. 2022;14(2):153-7

Phcog.Net

Pharmacognosy Research, Vol 14, Issue 2, Apr-Jun, 2022 153

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Recent Patents on Nanotechnology, 2021, 15, 1-13 1

REVIEW ARTICLE

Nanotechnology-based Herbal Formulations: A Survey of Recent Patents, Advancements, and Transformative Headways

Anureet Kaur¹, Lakhvir Kaur^{1*}, Gurjeet Singh¹, RK Dhawan² and Ayushi Mahajan¹

¹ Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, 143001, India; ² Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, 143001, India

Abstract: Nanotechnology in association with herbal medicine can lead to enhanced therapeutic and diminished adverse effects of medication. In turn, it can lead to synergistic effects of administered compound overcoming its demerits. Nowadays, the trend of herbal compounds to treat even a small illness is gaining momentum. Gone are the days when the ineffectiveness of a compound was impossible to be dealt with. Nevertheless, in this competitive era of science and innovative technology, it has become possible to maximize the usefulness of ineffective yet potent herbal compounds. The demand for herbal compounds is getting amplified because of their ability to treat a myriad of diseases, including COVID-19, showing fewer side effects. The merger of nanotechnology with traditional medicine augments the potential of herbal drugs for devastating dangerous and chronic diseases like cancer. In this review article, we have tried to assimilate the complete information regarding the use of different nanocarriers to overcome the drawbacks of herbal compounds. In addition, all the recent advancements in the herbal field, as well as the future exploration to be emphasized, have been discussed.

Keywords: Nanocarriers, herbal compounds, green synthesis, antimicrobial activity, cancer, nanotechnology.

ARTICLE HISTORY
 Received: November 10, 2020
 Revised: February 22, 2021
 Accepted: March 02, 2021

DOI: 10.2174/1872210515666210428133343





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Recent Patents on Anti-Infective Drug Discovery, XXXX, XX, 1-14

1

REVIEW ARTICLE

Multipotentiality of Luliconazole against Various Fungal Strains: Novel Topical Formulations and Patent Review

Ayushi Mahajan¹, Lakhvir Kaur^{1*}, Gurjeet Singh¹, RK Dhawan¹ and Lovepreet Singh¹

¹Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, 143001, Punjab, India

Abstract: Luliconazole is a broad-spectrum antifungal agent with impactful fungicidal and fungistatic activity. It has shown exceptional potency against miscellaneous fungal strains like *Candida*, *Aspergillus*, *Malassezia*, *Fusarium* species and various dermatophytes. Luliconazole belongs to class II of the Biopharmaceutical Classification System with low aqueous solubility. Although it is available conventionally as 1% w/v topical cream, it has limitations of lower skin permeation and shorter skin retention. Therefore, nanoformulations based on various polymers and nanostructure carriers can be employed to overcome the impediments regarding topical delivery and efficacy of luliconazole. In this review, we have tried to provide insight into the literature gathered from authentic web resources and research articles regarding recent research conducted on the subject of formulation development, patents, and future research requisites of luliconazole. Nanoformulations can play a fundamental role in improving topical delivery by escalating dermal localization and skin penetration. Fabricating luliconazole into nanoformulations can overcome the drawbacks and can efficiently enhance its antifungal activity. It has been concluded that luliconazole has exceptional potential in the treatment of various fungal infections, and therefore, it should be exploited to its maximum for its innovative application in the field of mycology.

ARTICLE HISTORY

Received: July 22, 2021
Revised: August 31, 2021
Accepted: September 24, 2021

DOI:
10.2174/2720440406211111101010

Keywords: Luliconazole, antifungal, nanoformulations, topical, fungi, mycology.

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Coronaviruses, 2022, 3, e221221195086

MINI-REVIEW ARTICLE



COVID-19 Vaccines: Fabrication Techniques and Current Status



Ayushi Mahajan¹, Lakhvir Kaur^{1*}, Gurjeet Singh¹, Ravi Kumar Dhawan², Lovepreet Singh¹ and Anureet Kaur¹

¹Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar 143001, India; ²Department of Pharmacology, Khalsa College of Pharmacy, Amritsar 143001, India

ARTICLE HISTORY

Received: March 12, 2021
Revised: May 17, 2021
Accepted: May 24, 2021

DOI:
10.2174/266679670266210728150704



Abstract: The year 2020 was the most challenging period due to the havoc caused by the outbreak of novel coronavirus SARS-CoV-2. Scientists and researchers all around the world have endeavored every possible approach to find solutions in context to therapeutics and vaccines to control the spread of this life-threatening virus. The acceleration instigated by the outbreak of SARS-CoV-2 and its mutated strains has leveraged the use of numerous platform technologies for the development of vaccines against this unfathomable disease. Vaccines could play an important role in mitigating the effects of COVID-19 and reducing the ongoing health crisis. Various innovative platforms like proteins, nucleic acids, viruses, and viral vectors have been exploited to fabricate vaccines depicting almost 90% of efficacy like BNT162b2, AZD1222, Ad5-nCoV, etc. Some of these vaccines are multipotent and have shown potent activity against newly emerged malicious strains of SARS-CoV-2 like B.1.351 and B.1.1.7. In this review article, we have gathered key findings from various sources of recently popularized vaccine candidates, which will provide an overview of potential vaccine candidates against this virus and will help the researchers to investigate possible ways to annihilate this menace and design new moieties.

Keywords: COVID-19, SARS-CoV-2, vaccines, clinical trials, m-RNA vaccine, adenovirus, immune response.





COVID-19: Mutated Strain, Treatment Options and Vaccine Development

Ayushi MAHAJAN¹, Lakhvir KAUR^{2*}, Gurjeet SINGH³, RK DHAWAN⁴,
Anureet KAUR⁵

COVID-19: Mutated Strain, Treatment Options and Vaccine Development

SUMMARY

The ongoing outbreak of the COVID-19 is a significant threat to global health and the economy. This disease is a highly contagious pathogenic disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The virus has a high reproduction rate, due to which it is highly transmissible and has turned into a catastrophe. Scientists and researchers worldwide are exaggerating every possible approach to limit the spread of this malicious disease. An abrupt rise has been reported in the number of cases due to newly mutated strains like SARS-CoV-2 VUI 2020/12/01. To date, no specific drug is effective in the complete eradication of this dangerous disease but, some broad-spectrum antivirals like Remdesivir, Lopinavir, etc. are being used in the management of this ailment. Also, every possible effort has been made in the development of vaccines for preventing the outbreak of this deadly virus. The BNT162b2 by Pfizer and m-RNA-1273 by Moderna have been recently launched into the market, which have shown undesirable effects in geriatrics leading to mortality. In this review, we have tried to highlight important aspects of the COVID-19 that will aid in global awareness and will help the researchers to investigate possible ways to eradicate this menace and design new moieties for its effectual management.

Key Words: COVID-19, SARS-CoV-2, Mutations, Spike protein, Pandemic, Vaccine.

COVID-19: Mutasyona Ugramış Tün, Tedavi Seçenekleri ve Aşı Geliştirme

ÖZ

Devam eden COVID-19 salgını, küresel sağlık ve ekonomi için önemli bir tehdittir. Bu hastalık, şiddetli akut solunum sendromu koronavirüs 2'nin (SARS-CoV-2) neden olduğu oldukça bulaşıcı bir patojenik hastalıktır. Virüs yüksek bir üreme oranına sahiptir, bu nedenle yüksek oranda bulaşabilir ve bir felakete dönüşmüştür. Dünya çapındaki bilim adamları ve araştırmacılar, bu kötücul hastalığın yayılmasını önlemek için mümkün olan her yaklaşımı faallıkla kullanıyorlar. SARS-CoV-2 VUI 2020/12/01 gibi yeni mutasyona uğramış suşlar nedeniyle vaka sayısında ani bir artış bildirilmiştir. Bugüne kadar, bu tehlikeli hastalığın tamamen ortadan kaldırılmasında spesifik bir ilaç etkili değildir, ancak bu rahatsızlığın tedavisinde Remdesivir, Lopinavir vb. gibi bazı geniş spektrumlu antiviraller kullanılmaktadır. Ayrıca, bu ölümcül virüsü ortaya çıkmasını önlemek için aşıların geliştirilmesinde mümkün olan her türlü çaba gösterilmiştir. Geriatricide ölüme yol açan istenmeyen etkiler gösteren Pfizer'in BNT162b2'i ve Moderna'nın m-RNA-1273'ü, yakın zamanda piyasaya sürülmüştür. Bu derlemede, COVID-19'un küresel farkındalığa yardımcı olacak ve araştırmacıların bu tehdidi ortadan kaldırmanın olası yollarını araştırmasına ve etkili yöntemleri için yeni kusunlar tasarlamasına yardımcı olacak önemli yönlerini vurgulamaya çalıştık.

Anahtar kelimeler: COVID-19, SARS-CoV-2, Mutasyonlar, Spike protein, Pandemi, Aşı.

RESEARCH ARTICLE

Advancements in Amorphous Solid Dispersions to Improve Bioavailability

Determination of Alteration in Micromeritic Properties of a Solid Dispersion: Brunauer-Emmett-Teller Based Adsorption and Other Structured Approaches

Lovepreet Singh¹ · Lakhvir Kaur¹ · Gurjeet Singh¹ · R. K. Dhawan² · Manjeet Kaur¹ · Navdeep Kaur² · Prabhpreet Singh²

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Abstract

The present study is focused on the use of solid dispersion technology to triumph over the solubility-related problems of bex-arotene which is currently used for treating various types of cancer and has shown potential inhibitory action on COVID-19 main protease and human ACE2 receptors. It is based on comparison of green locust bean gum and synthetic poloxamer as polymers using extensive mechanistic methods to explore the mechanism behind solubility enhancement and to find suitable concentration of drug to polymer ratio to prepare porous 3rd generation solid dispersion. The prepared solid dispersions were characterized using different studies like X-ray diffraction (XRD), thermal gravimetric analysis (TGA), scanning electron microscopy (SEM), Brunauer-Emmett-Teller (BET), differential scanning calorimetry (DSC), and particle size analysis in order to determine the exact changes occurred in the product which are responsible for enhancing solubility profiles of an insoluble drug. The results showed different profiles for particle size, solubility, dissolution rate, porosity, BET, and Langmuir specific surface area of prepared solid dispersions by using different polymers. In addition to the comparison of polymers, the BET analysis deeply explored the changes occurred in all dispersions when the concentration of polymer was increased. The optimized solid dispersion prepared with MLBG using lyophilization technique showed reduced particle size of 745.7 ± 4.4 nm, utmost solubility of 63.97%, pore size of 211.597 Å, BET and Langmuir specific surface area of 5.6413 m²/g and 8.2757 m²/g, respectively.

Keywords BET · Lyophilization · Solid dispersion · Dissolution enhancement · Locust bean gum



KHALSA COLLEGE OF PHARMACY, AMRITSR

EXIT SURVEY FORM


Name of the student	
Registration number	
Academic Year	
Term	
Course Title	

Give score on the scale of 1-3

1.	Conduct of Induction Training Program	
2.	Student counselling	
3.	Provided a stimulating intellectual climate.	
4.	Mentoring sessions	
5.	The quality of course instruction.	
6.	Research facilities	
7.	Administrators and staff were helpful.	
8.	Information and assistance	
9.	E-gov site was useful	
10.	Library facilities were good	
11.	Computer facilities were good	
12.	Student health services were good	
13.	In Depth course coverage	
14.	Syllabus was covered completely	
15.	Books/study material available in the library	
16.	Number and content of assignments/tests	
17.	Teachers availability after class	

Arora
Principal
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AMRITSAR

18.	Discussion of topics beyond books in the class	
19.	Internet facility	
20.	Computers were available in the library for academic purpose	
21.	Hostel facilities (If applicable)	
22.	Hostel mess facility (If applicable)	
23.	Transportation to college	
24.	Availability of water and food	
25.	Cleanliness	
26.	Parking facilities	
27.	Sports grounds	
28.	Conference/Seminar Hall	
29.	Expert lectures from invited speakers	
30.	Instruments, apparatus and chemicals were sufficiently available for each student	
31.	Placement activities	
32.	Industrial visits	
33.	Any other comment	


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Khalsa College of Pharmacy, Amritsar

Parents Feedback Forms

(To be filled by Student's Parents)

(Please note that the data that is provided by you herein is strictly confidential and will not be shared with anyone without your prior permission).

Name of the Ward:

Course (D.Pharm/B.Pharm/M.Pharm):


Year of Admission:

Name of the Parent:

To further improve the quality of engineering education that we impart, please give us your valuable feedback as per the following points:

5 – Outstanding, 4 – Excellent, 3 – Above Average, 2 – Average, 1 – Not Satisfactory

Sl. No.	Parameter	Grade	Comment (If any)
1	Grade fulfilment of your overall satisfaction level from KCP		
2.	Grade your satisfaction level in terms of teaching and academic performance of your ward		
3.	Grade your satisfaction levels in terms of placement support from KCP		
4.	Rate your overall satisfaction level in terms of Institute's Infrastructure, facility and support		
5.	Rate your satisfaction level in terms of Institutes' efforts towards extra-curricular/co-curricular activities, workshops/seminars/ guest lecture etc to bridge the gap between Academia and Industry		
6.	Grade the efforts taken by the Department/Institute for overall grooming and personality development		
7.	Grade the Information flow/Communication from the department time-to-time about the performance and attendance etc. of your ward		
8.	Grade your satisfaction level in terms of faculty support/motivation/guidance/ counselling etc provided to your ward		
9.	Grade the overall ambience of the Institute		


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Employer Feedback Form
Khalsa College of Pharmacy, Amritsar

(Please note that the data that is provided by you herein is strictly confidential and will not be shared with anyone without your prior permission).

Dear Employer

Many of our students are already employed by your firm. We appreciate you hiring them with your renowned company/organization. We would be extremely thankful if you could spare some time to complete this feedback form. It will help us enhance the Institute and provide you with better employees.

Please Tick the number that best describes your level of satisfaction at each question:

5 – Outstanding, 4 – Excellent, 3 – Above Average, 2 – Average, 1 – Not satisfactory

How satisfied are you with the KCP's student / work performance in each of these areas:	1	2	3	4	5
1. General communication skills					
2. Developing practical solutions to workplace problems					
3. Working as part of a team					
4. Creative in response to workplace challenges					
5. Their planning and organization skills					
6. Self-motivated and taking on appropriate level of responsibility					
7. Open to new ideas and learning new techniques					
8. Using technology and workplace equipment					
9. Ability to contribute to the goal of the organization					
10. Technical knowledge/skill					
11. Ability to manage/leadership qualities					
12. Innovativeness, creativity					
13. Relationship with seniors/peers/subordinates					
14. Involvement in social activities					
15. Ability to take up extra responsibility					
16. Obligation to work beyond schedule if required					

On a scale of 1 to 5 how do you rate your overall satisfaction with KCP students and the curriculum?

1	2	3	4	5
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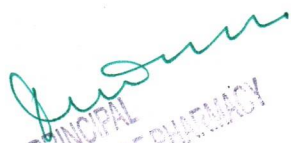
If you were dissatisfied with any aspect, please comment further:

How could our programs be improved? What specific comments do you have regarding the Curriculum?

Employer company Name:

Employer Name & Sign:

Name of the graduate /Employee:



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**KHALSA COLLEGE OF PHARMACY, AMRITSR
FACILITY FEEDBACK FORM**

Name of the student	
Registration number	
Academic Year	
Term	
Course Title	

Give score on the scale of 1-3

1.	Well illuminated and ventilated classrooms	
2.	Student counselling	
3.	Provide a stimulating intellectual climate.	
4.	Mentoring sessions	
5.	The quality of course instruction	
6.	Library facilities were good	
7.	Books/study material available in the library	
8.	Journals in Library	
9.	Library access timings (Library lecture)	
10.	Lab facilities: Equipment, Chemicals and glassware were sufficiently available for each student	
11.	Research facilities	
12.	Administrators and staff were helpful.	
13.	Information and assistance	
14.	E-gov site was useful	
15.	Computer facilities were good	
16.	Student health services were good	
17.	In Depth course coverage	
18.	Syllabus was covered completely	
19.	Number and content of assignments/tests	
20.	Teachers availability after class	
21.	Discussion of topics beyond books in the class	
22.	Internet facility	
23.	Computers were available in the library for academic purpose	
24.	Hostel facilities (If applicable)	


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ਖਾਲਸਾ ਕਾਲਜ ਆਫ ਫਾਰਮੇਸੀ
Khalsa College of Pharmacy
 G.T. Road, Amritsar 143002

Phr 0183-2450215

Estd. 2009

e-mail: khalsacop.asr2009@gmail.com

Web: www.khalsacollegepharmacy.org

Approved by AICTE, PCI, New Delhi & Punjab Govt. Affiliated to PTU, Kapurthala, PSBTE & IT, Chandigarh

Detail of Concession paid to Fatherless students
 During 2020-2021

Registration no.	Name	Fathers Name	Branch	Sem	Amount	CHQ NO.	DATE
1 1912538	MANDEEP SINGH CHINNA	Rabinder Singh	M.PHARM	3	10625	8	14.12.202
2 1912521	CHAHAT KHANNA	Rajeev Khanna	M.PHARM	2	10625	7	14.12.202
3 200931904544	HARSH KUMAR	Satish Kumar	D.PH	1	2750	12	22.10.202
4 190931904046	KHUSHDEEP SINGH	Palwinder Singh	D.PH	3	2750	24	15.2.2021
5 200931904557	MUKESH	Raghuraj	D.PH	1YR	2750	25	15.2.2021
6 200931904544	HARSH KUMAR	Satish Kumar	D.PH	2	2750	26	15.2.2021
7 2015776	SANDEEP KAUR	Sukhdev Singh	B.PHARM	3	7500	15	15.2.2021
8 1912538	MANDEEP SINGH	Rabinder Singh	M.PHARM	4	10625	13	15.2.2021
9 1912521	CHAHAT KHANNA	Rajeev Khanna	M.PHARM	3	10625	12	15.2.2021
10 1912521	CHAHAT KHANNA	Rajeev Khanna	M.PHARM	4	10625	11	15.2.2021
11 1722803	AMAN SHARMA	Jagmohan	B.PHARM	8	7500	126	26.3.2021
12 190931904046	KHUSHDEEP SINGH	Palwinder Singh	D.PH	2	2750	122	26.3.2021
13 1722803	AMAN SHARMA	Jagmohan	B.PHARM	5	7500	309467	31.7.2020
14 1722803	AMAN SHARMA	Jagmohan	B.PHARM	6	7500	309468	31.7.2020
TOTAL					1,04,375/		

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15/02/2021
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 Valid for 3 months only
 QR CODE

Payee: Mandeep Singh Chhina
 Payable: Ten thousand five hundred twenty five only
 Amount: ₹ 10625/-

Account No: 50200049584990
 IFSC: 502000
 MICR: 143240010 018576 29

Principal: Ani Daman

Ani Daman
 PRINCIPAL
 KHALSA COLLEGE OF PHARMACY
 AMRITSAR



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3 1 0 3 2 0 2 3
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Pay *Gurshahib Singh*

Or Bearer

Rupees *Three thousand only*

भा धारक को

₹ 3100/-

No. 50100435199781

Brn: 0476 Pdt: 145
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For PRINCIPAL KHALSA COLLEGE OF PHARMACY ASH

Payable at par through clearing/transfer at all branches of HDFC BANK LTD.

[Signature]

Authorized Signatories

Please sign above / पर धारक को

⑈000112⑈ 143240004⑈ 031067⑈ 31

[Signature]
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KHALSA COLLEGE OF PHARMACY
AMRITSAR

To principle

Khalsa collage of Pharmacy
and tecnology, Amritsar

AMRITSAR COLLEGE OF PHARMACY
DIARY No. 4734
DATED 30.3.23
AMRITSAR

subject - Request for fee concession

Respected Sir,

I want to bring your kind Attention that
I am Bsc Mls 4th sem student in your collage
Sir, I am a fatherless student and my mother
is working women Our financial condition is not
stable and cant submit my full fee

Now I request to please give the concession
my favour so that I can persue my
studies.

As per norms
fee concession of
20% in tuition fee
is Rs. 3100/-

Your's obediently
Name:- Gurshah Singh
Roll no:- 2123718
class:- Bsc Mls (sem 4th)

Verified that
the student is
B Sc. Mls 4th sem

Fees paid
of BSc. 4th sem.

29/3/23

OFFICE IN CHARGE
Khalsa College of Pharmacy

Verified that
Gurshah Singh is
B Sc Mls 4th sem
fatherless student
fee concession
may be granted

29/03/23



ਪੰਜਾਬ ਸਰਕਾਰ / Government of Punjab
 ਸਿਹਤ ਤੇ ਪਰਿਵਾਰ ਕਲਾਈ ਵਿਭਾਗ
 Health & Family Welfare Department
 ਚੀਫ ਰਜਿਸਟਰਾਰ ਜਨਮ ਤੇ ਮੌਤ, ਪੰਜਾਬ
 Chief Registrar, Births & Deaths, Punjab

ਡੀ ਪੀ ਐਚ / D.P.H.-369
 ਫਾਰਮ / Form-7

ਨੰਬਰ / No.

ਮੌਤ ਸਰਟੀਫਿਕੇਟ / Death Certificate

ਇਹ ਤਸਦੀਕ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਹੇਠ ਲਿਖੀ ਸੂਚਨਾ ਅਸਲ ਮੌਤ ਰਿਕਾਰਡ ਵਿੱਚ ਲਈ ਗਈ ਹੈ ਜਿਹੜੀ ਕਿ
 ਲੋਕਲ ਰਜਿਸਟਰਾਰ, ਜਨਮ ਤੇ ਮੌਤ, ਨਗਰ ਨਿਗਮ / ਕੌਂਸਲ / ਗਾਮ ਪੰਚਾਇਤ / ਬਲਾਕ / ਪਬਲਿਕ ਥਾਣਾ / ਸਬ-ਸੇਂਟਰ
 ਚਾਕ ਮੁਕੰਦ ਬਲਾਕ / ਬਲਾਕ, ਪੀ. ਐਚ. ਸੀ. ਏਰਾ
 ਤਹਿਸੀਲ ਆਮਰਿਤਸਰ ਜਿਲ੍ਹਾ ਆਮਰਿਤਸਰ ਪੰਜਾਬ, ਦੇ ਸਾਲ 2017
 ਦੇ ਰਜਿਸਟਰ ਵਿੱਚ ਦਰਜ ਹੈ।

This is to certify that the following information has been taken from the original death record which is registered in the death register of Local Registrar, Births & Deaths, Municipal Corporation / Council / Gram Panchayat/Block/Police Station/Sub-Centre **Chak Mukand**

Block/Block (P.H.C.) **Veerka** Tehsil **Attari**
 District **Amritsar** of Punjab State for the year **2017**
 ਮਿਤਕ ਦਾ ਨਾਮ / Name of Deceased **ਜਸਬੀਰ ਸਿੰਘ Jashbir Singh** ਲਿੰਗ / Sex **Male**
 ਪਿਤਾ/ਪਤੀ ਦਾ ਨਾਮ / Father's / Husband's Name **ਗੁਰਦਿਆਲ ਸਿੰਘ Gurdial Singh**
 ਮਿਤਕ ਦੀ ਮਾਤਾ ਦਾ ਨਾਮ / Name of Deceased's Mother **ਗੁਰਿੰਦਰ ਕੌਰ Gurinder Kaur**
 ਮੌਤ ਦੀ ਮਿਤੀ / Date of Death **18-1-17** ਮੌਤ ਅਸਥਾਨ / Place of Death **ਇਠੇ ਖੁਰਮਈਆ**
 ਰਜਿਸਟਰੇਸ਼ਨ ਦੀ ਮਿਤੀ / Date of Registration **6-2-17** ਰਜਿਸਟਰੇਸ਼ਨ ਨੰ / Registration No **3**

ਮਿਤਕ ਦਾ ਮੌਤ ਸਮੇਂ ਪਤਾ
 Address of deceased at the time of death

ਇਠੇ ਖੁਰਮਈਆ Vill-Khurmania
C.P-7 ਖਾਸਾ ਆਮਰਿਤਸਰ
Khasa Amritsar

ਟਿਪਣੀ (ਜੇਕਰ ਕੋਈ ਹੈ)
 Remarks (if any)

ਜਾਰੀ ਕਰਨ ਦੀ ਮਿਤੀ / Date of issue **6-2-17**

ਸਰਟੀਫਿਕੇਟ ਤਿਆਰ ਕਰਨ ਵਾਲੇ ਦਾ ਨਾਮ ਅਤੇ ਅਹੁਦਾ
 Name & Designation of Official who prepared certificate

ਮੀਰਾ ਗਈ ANM

ਮਿਤਕ ਦਾ ਪੱਕਾ ਪਤਾ
 Permanent address of the deceased

ਇਠੇ ਖੁਰਮਈਆ
C.P-7 ਖਾਸਾ ਆਮਰਿਤਸਰ

ਜਾਰੀ ਕਰਨ ਵਾਲੇ ਅਧਿਕਾਰੀ ਦੇ ਦਸਖਤ, ਨਾਮ ਤੇ ਪਤਾ
 Signature, Name & address of the issuing Authority

ਮੁਖਰਮੁਖੀ ਮੁਖਰਮੁਖੀ
ਮਿਨੀ ਮਿਨੀ ਮਿਨੀ ਮਿਨੀ
ਬਲਾਕ ਵੇਰਕਾ (ਆਮਰਿਤਸਰ)
ਮਹਰ / Seal

ਨੋਟ: ਮੌਤ ਦੇ ਰਜਿਸਟਰ ਵਿੱਚ ਮੌਤ ਦਾ ਜੋ ਕਾਰਨ ਦੱਸਿਆ ਗਿਆ ਹੈ, ਉਸ ਬਾਰੇ ਕੋਈ ਸੂਚਨਾ ਸਰਟੀਫਿਕੇਟ ਵਿੱਚ ਨਹੀਂ ਦਿੱਤੀ ਜਾਵੇਗੀ।
 Note: The cause of Death registered in Death register, will not be record given in the Death Certificate
 ਹਰੇਕ ਜਨਮ ਤੇ ਮੌਤ ਦੀ ਰਜਿਸਟਰੇਸ਼ਨ ਯਕੀਨੀ ਬਣਾਓ / Ensure registration of every birth and death

Handwritten signature and stamp

HDFC BANK

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G. T. ROAD, AMRITSAR AMRITSAR-143001 PUNJAB
RTGS / NEFT IFSC : HDFC0000476

Preferred

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D D M M Y Y Y Y
Valid for 3 months only

Pay to the order of *Ravinder Singh*

Payable in Rupees *Three thousand only*

OR Bearer
या धारक को

₹ *3100* —

50100435199781

SB-INSTITUTION

He Doyal

FOR PRINCIPAL, KHALSA COLLEGE OF PHARMACY, ASB

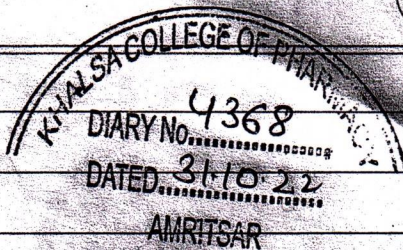
Pr. Doman

Authorized Signatories
Please sign above / या धारक को

⑈000083⑈ 143240004⑈ 031067⑈ 31

Ravinder Singh

Pr. Doman
PRINCIPAL
KHALSA COLLEGE OF PHARMACY
AMRITSAR



To
The Principal

Khalsa College of Pharmacy
Amritsar

Subject: Requesting fee concession after father's
Death

Respected Sir,

I am studying here in the class of B.Sc. M.L.S Ist Semester. My father passed away in 2010. My Mother is a housewife and she do small jobs for fulfill our needs. We are two brothers. My younger brother is also studying in 10th class. My mother is not able to pay my college fees. But I want to continue my education. Because now, I also need to support my family. I am a bright student and good at studies. I hope you understand my problem and waive my fees. I also submit my father's death certificate Photocopy with this letter. I will be thankful to you for your this act of kindness in this hard time of need.

Yours obediently
Rowinder Singh

As per rules concession
90% on tuition fees
is Rs. 3000/-
Shubh

Fees paid
of BSc 1st sem

verified that
Rowinder Singh is provisionally
admitted to B.Sc. M.L.S
1st sem
father's death certificate
submitted
21/10/22

OFFICE IN CHARGE
Khalsa College of Pharmacy

Interest
Amri

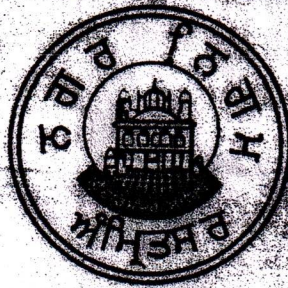
Death
Amritsar

sion 17

DEATH CERTIFICATE

ਮੌਤ ਦਾ ਸਰਟੀਫਿਕੇਟ

Issued Under Section 12/17 of Registration of Births & Deaths Act, 1969
ਜਨਮ ਅਤੇ ਮੌਤ ਐਕਟ 1969 ਦੀ ਧਾਰਾ 12/17 ਅਧੀਨ ਜਾਰੀ ਕੀਤਾ ਗਿਆ



Certificate No. 00000307579
Issued Against Receipt No. 0000179
Dated 19-02-2010

ਨਗਰ ਨਿਗਮ ਅੰਮ੍ਰਿਤਸਰ MUNICIPAL CORPORATION AMRITSAR (See Rule 8/13)

This is to certify that the following information has been taken from the original record which is registered in the register of Local Registrar. Births & Deaths, Municipal Corporation, Amritsar. Tehsil & Distt. Amritsar, Punjab State.

Name of the deceased: ਸਿਤਕ ਦਾ ਨਾਮ SATNAM SINGH

Name of Father/Husband: ਪਿਤਾ/ਪਤੀ ਦਾ ਨਾਮ KASHMIR SINGH

Sex: (Male/Female) ਲਿੰਗ (ਆਦਮੀ/ਔਰਤ) MALE Nationality ਰੋਸ਼ੀਅਤ INDIAN

Permanent Residential Address: ਪੱਕਾ ਰਿਹਾਇਸ਼ੀ ਪਤਾ SHAHJEED UDHAM SINGH NAGAR GALI NO. 5 H. NO. 343 AMRITSAR

Date of Death: (dd-mm-yyyy) ਮੌਤ ਦੀ ਮਿਤੀ 19-01-2010 Registration No. : ਰਜਿਸਟਰੇਸ਼ਨ ਨੰ 196

Date of Registration : (dd-mm-yyyy) ਰਜਿਸਟਰੇਸ਼ਨ ਦੀ ਮਿਤੀ 22-01-2010 Place of Death: ਮੌਤ ਦਾ ਅਸਥਾਨ AMRITSAR

Prepared by : ਤਿਆਰ ਕਰਤਾ

- 1. Signature ਦਸਤਖਤ
- 2. Name & Designation With Seal ਨਾਮ ਅਤੇ ਅਹੁਦਾ ਮੋਹਰ ਸਹਿਤ
S. P. SINGH
M.P.H.W.
Birth & Death
- 3. Centre No. ਕੇਂਦਰ ਨੰ.

Principal
KUNJSA COLLEGE OF PHARMACY
AMRITSAR

Date: ਮਿਤੀ Issued By: ਮੁਖਿਯ ਕਰਤਾ, Local Registrar, Birth's & Deaths, Municipal Corporation Amritsar, ਨਗਰ ਨਿਗਮ ਅੰਮ੍ਰਿਤਸਰ

Note: No Disclosure shall be made of particulars regarding the cause of death as entered in the register. (see provision 17) visit us at www.amritsarcorp.com

Handwritten signature/initials

Year (2018-19)

Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e-books (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books		400000		
Journals		98705		
e - journals				
e-books				
e-ShodhSindhu				
Shodhganga				
Databases				
access to e- resources (Specify)				

Year (2019-20)

Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e-books (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books		500000		
Journals		99180		
e - journals				
e-books				
e-ShodhSindhu				
Shodhganga				
Databases				
Local and / or Remote access to e- resources (Specify)				

Year (2020-2021)

Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e-books (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books		500000		
Journals		100000		
e - journals				
e-books				
e-ShodhSindhu				
Shodhganga				
Databases				
Local and / or Remote access to e- resources (Specify)				

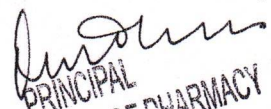
Year (2021-22)

Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e-books (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books		550000		
Journals		101869		
e - journals				
e-books				
e-ShodhSindhu				
Shodhganga				
Databases				
Local and / or Remote access to e- resources (Specify)				

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Year (2022-23)

Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e-books (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books		600000		
Journals		122185		
e - journals				
e-books				
e-ShodhSindhu				
Shodhganga				
Databases				
Local and / or Remote access to e- resources (Specify)				


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13-9-21

Name	Class	In time	Out time	Sign
Kawal	MSC MLT (3 rd)	12:20	12:32	Kawal
Talinder	Rec. MScA	12:20	12:55	Talinder
		12:00	12:45	
Aphima	B. Pharm	12:15	12:40	Aphima
Nidhi	B. Pharm	2:00	2:05	Nidhi
	B. Pharm	2:04	2:37	
	B. Pharm	2:04	"	
ashuhat	"	"	2:52	ashuhat
Lohu	"	2:08	2:08	Lohu
Shrey	"	2:08	2:20	Shrey
		2:12	2:31	
Hsh	"	2:14	2:34	Hsh
Booga	"	2:16	2:32	Booga
emrit Singh	"	2:35	3:35	emrit Singh
		2:35	2:35	
Piyam	"	2:35	2:40	Piyam
abshar	B.P	2:35	3:20	abshar
Mehar	B.P	2:25	3:35	Mehar
		2:30	2:40	
Ashika	"	2:55	2:55	Ashika
Prayash	"	3:07	3:30	Prayash
Nikita	B. Pharm - 3	3:08	3:45	Nikita
	B. Pharm	3:09	3:12	
	B. Pharm	3:24		
Hitesh	B. Pharm	3:25		Hitesh
Arush	B. Pharm	3:25	3:48	Arush
			3:45	
		3:30	"	
Radhika	"	3:30	"	Radhika
	B. Pharm	2:40	"	

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 KHALSA COLLEGE OF PHARMACY
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13-9-21

Name	Class	In time	Out time	Sign
Mamaw	B. Pharmacy	9:58	10:10	
	m. Pharm	10:00	11:00	Eulandeep
Shashmeet	B. Pharma	10:12	12:47	Shashmeet
Rohit Verma	"	10:12	10:45	Rohit
Nalgi +	M. Pharma	10:15	11:40	Nalgi
	"	"	11:00	Vani
Pratyot Singh	D. Pharmacy	11:00 Am	11:20	Pratyot Singh
Harmandeep Singh	D. Pharmacy	11:01 Am	11:20	Harmandeep Singh
Satnam Singh	D. Pharmacy	11:02 A.M	11:15	Satnam Singh
	B. Pharm	11:25 Am	12:10	Munish
Janisha	B. Pharma	11:25 Am	11:42 AM	Tanisha
Prabhat Chaudhary	B. Pharma	11:25 AM	12:30	Prabhat
Pradeep Singh	B. Pharma	11:25 AM	11:40 AM	Pradeep S.
	B. Pharm	11:25 AM	11:40 AM	Pradeep
Mehrab K Sandhu	B. Pharma	11:27 AM	12:20	Mehrab
Rhythm	B. Pharma	11:27 AM	11:42 AM	Rhythm
Silbag Sng	BSC MHS 5th	11:50 am	11:55 am	Silbag
	"	"	"	Manmeet Singh
Kuldeep Singh	D. Pharmacy	12:00	12:00	Kuldeep Singh
	D Pharmacy	12:00	12:20	Samir
Simranjeet Singh	D Pharmacy	12:00	12:44	Simran
	B. Pharm 7th	12:01	12:50	
Aminder Singh	D. Pharm	12:02	12:40	Aminder Singh
Gurshahib Singh	D. Pharm	12:02	12:40	Gurshahib Singh
Ganpreet Singh	D. Pharm	12:02	12:40	Ganpreet
Arnav Singh	B. Pharmacy	12:03	12:40	Arnav
	D. Pharmacy	12:03	12:40	Karan Singh
Sanjiv Singh	D Pharmacy	12:04	12:45	Sanjiv Singh
Abhishek Singh	D Pharmacy	12:04	12:05	Abhishek Singh

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Name	Class	In time	Out time	Sign
Nitish Singh	D.Pharm 7 th	4:00	4:37	W
Kash	B.Pharm 3 rd	9:40	10:10	A
	B.Pharm 3 rd	9:40	10:20	J
Amrit	B.Pharm 7 th	10:06	10:20	A
Shubh	"	"	"	"
Kulshab	"	10:13	10:52	P
	"	10:29	11:08	S
Neelam	"	"	"	W
Saloni	"	"	"	S
Kunal	"	10:30	10:45	M
	"	"	"	F
Hailey	B.Sc mit	10:45	11:00	S
Kashish	B.Sc mit	10:45	"	P
Panandeep Kaur	B.Sc mit	10:46	"	P
	B.Sc mit	10:46	11:10	K
Waseem Singh	B.Pharm	11:01	11:10	W
Manish Sharma	B.Pharm	11:01	11:09	M
Ranab Tiwari	B.Pharm	11:02	11:09	R
	B.Pharm	11:03	11:09	M
	B.Pharm	11:20	11:45	T
	A.Pharm	11:30	11:45	"
Jaspreet	D.Pharm	12:00	12:30	"
	D.Pharm	12:30	1:00	"
Uday Sharma	D.Pharm	2:20	3:45	P
Amrit	M.Pharm	2:30	3:30	A
Uday	D.Pharm	3:00	3:40	W
	D.Pharm	3:10	3:30	"
	"	"	"	"
	"	"	"	"
Maryindia	DPH	"	"	"
Suneet Kaur	B.Pharm	3:20	3:30	"
P.A.B	O.A.	"	"	"

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सत्यमेव जयते

NIPAM
NATIONAL IP AWARENESS MISSION

Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
Office of the Controller General of Patents, Designs and Trade Marks

CERTIFICATE

This is to certify that, **DR. DR JASJEET KAUR NARANG , FACULTY of KHALSA COLLEGE OF PHARMACY** has successfully participated in IP Awareness/Training program under

NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION

on February 16,2023

Organized by
Intellectual Property Office, India



Date:February 17,2023

(Prof. (Dr) Unnat P. Pandit)
CONTROLLER GENERAL OF
PATENTS, DESIGNS & TRADE MARKS

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PHARMACY



Certificate

OF APPRECIATION

This is to certify that
Anmol Dogra , **Assistant Professor**

at **Khalsa College of Pharmacy, Amritsar** has participated in
One Week virtual Faculty Development Program on

“Recent Pedagogical Tools in Education for Updating the Knowledge of Pharmaceutical Professionals”
from : 20th to 24th June, 2022 at IIMT College of Pharmacy, Greater Noida.

Dr. Pushendra Jain
Convener, FDP

DG29L8-CE000385

Ms. Priya Pandey
Coordinator, FDP

Dr. Mallikarjuna B.P.
Organizing Chair

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Dr. Prabh Simran Singh from Khalsa College of Pharmacy, Amritsar, has participated and successfully completed 7-days "Faculty Development Program for Student Induction (FDP-SI)" during 3 - 9 January, 2020 at I K Gujral Punjab Technical University (IKG PTU), Kapurthala organized by All India Council for Technical Education(AICTE).

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Rajive Kumar
Member Secretary, AICTE

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Certificate

OF APPRECIATION

This is to certify that

Mr. Nishant Kumar

Assistant professor

at Khalsa College of pharmacy, Amritsar has participated in
5 days virtual Faculty Development Program
from 8th to 12th February, 2022 at IIMT College of Pharmacy, Greater Noida.

244BAA-CE000819:

Jayendra
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AMRITSAR

Dr. Jayendra Kumar
Convener, FDP

Dr. Pushpendra Jain
Coordinator, FDP

Dr. Mallikarjuna B.P.
Organizing Chair



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Dr. Jasjeet Kaur Narang from Khalsa College of Pharmacy, Amritsar has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 26th December to 30th December 2022.

Jasjeet Kaur Narang
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KHALSA COLLEGE OF PHARMACY
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Dr. Rajneesh Arora
Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Rajive Kumar
Prof. Rajive Kumar
Member Secretary, AICTE

CERTIFICATE OF PARTICIPATION

This is to certify that

Rajan Sabwan

has attended 1 week virtual Faculty Development Programme
on the theme of "*Current Trends in Clinical Research and
Regulatory Affairs: Reforming Pharmacy Education*" from 26
to 30 July 2021.

[Signature]
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[Signature]
Prof. (Dr.) Arun Garg
Dean, SMAS

[Signature]
Dr. Atul Kr. Nasa
Hon'ble President, IPGA

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e-mail: khalsacop.asr2009@gmail.com

Web: www.khalsacollegepharmacy.org

Approved by AICTE, PCI, New Delhi & Punjab Govt. Affiliated to PTU, Kapurthala, PSBTE & IT, Chandigarh

G20- STAFF INAUGURATION



Jaspreet Singh

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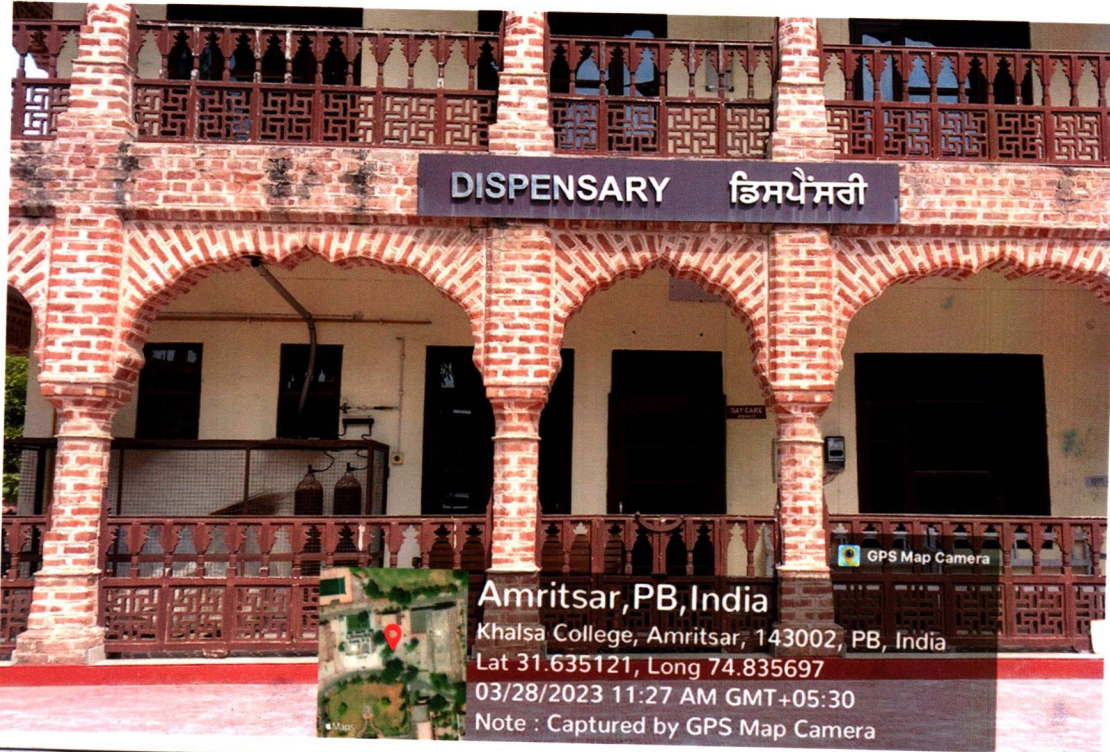
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AMBULANCE FACILITY



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ATM FACILITY



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