

“Summer Food Festival-University Industry Interaction-2012”

On

19-20th May, 2012

**Venue: Main Auditorium, Guru Nanak Bhavan,
Guru Nanak Dev University, Amritsar.**

Chief Guest

Mr. Anil Joshi

Honourable Cabinet Minister, Punjab

**(Industry & Commerce,
Technical Education & Industrial Training)**



Patron

Prof. A.S. Brar

Worthy Vice-Chancellor

Organized by

Department of Food Science & Technology

GURU NANAK DEV UNIVERSITY, AMRITSAR-143 005.

DEPT. OF FOOD SCIENCE & TECHNOLOGY GURU NANAK DEV UNIVERSITY, AMRITSAR.

Dear Sir,

We are pleased to inform that the department is organizing a “Summer Food Festival-University Industry Interaction-2012” on 19-20th May, 2012 in the Main Auditorium at Guru Nanak Bhawan, Guru Nanak Dev University, Amritsar.

It will boost the University-Food Industry rapport and will provide a platform to share the current scenario of food processing in Punjab. The industry will also get a platform to display the products, innovations, and expertise. The department will also share their expertise, facilities available and reorient the thrust areas of research as per the demand of the region. The topics of the seminar are relevant to the present day need of the sugar, alcohol, distillery, brewery and food processing industries. The sponsoring industries will be given the slot to present their profiles, share the innovations in the field. The industries are also welcome to have collaboration with the department to promote research, interaction and sharing the facilities available. Secondly, the department is having testing, consultancy, advisory services the list of which is attached herewith. The industries are, therefore, requested to depute their executives/technologists/engineers/managers in large number in order to get benefit from the deliberations to be discussed at large.

The stalls are also available on first come first service basis. The sponsor/stall charges are mentioned in the attached document. The sponsors and companies opting for stall will get space in the attachment of department profile in the University website.

Kindly register in time to avoid inconvenience

For further details contact:

Head Dr. R.S. S. Kaler (M: 094642-25529)

Event Managers Prof. Narpinder Singh (M: 094647-77980);

Prof. Satinder Kaur (098760-27571)

Programme

19th May, 2012

Registration	:-	10.00 a.m. to 10.30 a.m.
Inaugural Session	:-	10.30 a.m. to 11.30 a.m
Tea	:-	11.30 a.m. to 12.00 noon
Technical Presentation	:-	12.00 noon to 2.00 p.m.
Lunch	:-	2.00 p.m. to 3.00 p.m.
Technical Presentation	:-	3.00 p.m. to 5.00 p.m.
Tea	:-	5.00 p.m. to 5.30 p.m.
Cultural Programme	:-	5.30 p.m. to 7.00 p.m.

20th May, 2012

Refreshment	:-	10.00 a.m. to 10.30 a.m.
Presentation by Sponsors	:-	10.30 a.m. to 11.30 a.m
Technical Presentation	:-	11.30 a.m. to 2.00 p.m.
Lunch	:-	2.00 p.m. to 3.00 p.m.
Technical Presentation	:-	3.00 p.m. to 5.00 p.m.
Tea	:-	5.00 p.m. to 5.30 p.m.
Valedictory function	:-	5.30 p.m. to 6.00 p.m.
Cultural Programme	:-	6.00 p.m. to 7.00 p.m.

Organizing Committee

Event Managers: Prof. Narpinder Singh and Prof. Satinder Kaur

Student volunteer: Ms. Dhvani Arora

Organizing Secretaries: Dr. R.S.S. Kaler and Dr. Amritpal Kaur

Student volunteer: Mr. Happy Davinder Singh

Stall / Sponsorship Managers: Er. H.K.J. Singh, Dr. N.S. Sodhi and Dr. Bhavnita Dhillon

Student volunteers: Mr. Jatin, Mr. Jaswinderjit Singh

Stage / Decoration / Reception Managers: Dr. H.S. Gujral and Dr. Maninder Kaur

Student volunteers: Mr. Vikrant, Mr. Varun Aggarwal

Tour / Travel / Refreshment Manager: Dr. B. S. Gill

Student volunteers: Mr. Sidahant, Ms. Deepna Arora

Financial Manger: Mr. Swarn Singh

Cultural Programme Incharge: Prof. Satinder Kaur and Ms. Jessy Moza

Amritsar

Amritsar, known for rich cultural heritage for centuries, a living symbol of historical and religious traditions of Sikhs tangibly expressed through the divinely blessed Shrines, has rightfully earned for it the sobriquet.

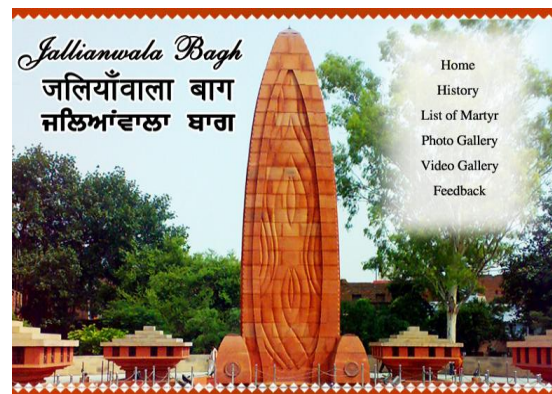
“Religiously Amritsar is known as capital of the Sikhs”.

Historically speaking the fourth Guru, Guru Ram Das, secured the gift of a piece of land from emperor Akbar, where he built the holy tank and laid the foundation of Amritsar, which became a sacred place for the pilgrimage of community. The fifth Guru, Guru Arjan Dev built the Harimandir Sahib in the centre

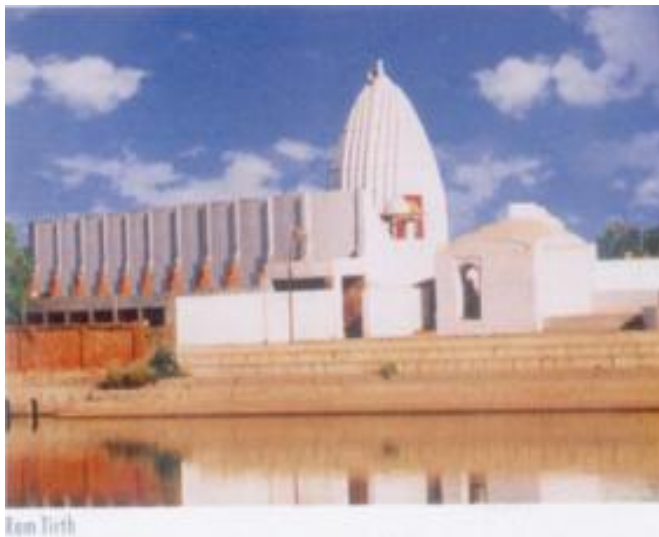


of the holy tank. The execution of Guru Arjan Dev ji in 1606 transformed the religious community into the community of warriors. The process of transformation was started by the Guru Hargobind Singh, The sixth Guru in Line who girded two swords around him-one representing his spiritual leadership and the other as weapon of self defense against aggression, thereby proclaiming the tradition of Miri and Piri. He also founded Akal Takhat symbolizing the martial defense of the spiritual and pacifist aspect represented by Harimandir Sahib. Maharaja Ranjit Singh captured the city in 1805. His first important act was to gild the whole structure of Harimandir Sahib with gold. Thereafter it came to be called “Golden Temple”.

Jallianwala Bagh tragedy stands as a singular source of inspiration and strength during the freedom struggle. The inhuman face of the so called paternalistic British Raj came to be seen by all the Indians and it is from here that petitioning Indian National Congress became a martial force and converted the elitist movement into a mass movement.



Durgiana Mandir echoes not the traditional Hindu temple architecture, but that of Golden Temple also. It is well known repository of Hindu scripture. The building is built inside a pond and shows an image of historical architecture. It was built in the third decade of 20th century.



Ram Tirath Temple dates back to the period of Ramayana. It is the heritage of Rishi Balmiki. The temple is having two tunnels which are similar to that we find at Mata Vaishno Devi. The place has a hut where Mata Sita gave birth to Luv & Kush, Rishi Balmiki's hut, an ancient tank and many temples. Also it has a place where people plant bricks and so that they get their dream house soon.

Retreat Ceremony at Attari Border

After partition, Amritsar has become the gateway of India by land from central Asia, Afghanistan, Pakistan and other countries on the Western side. With its glorious heritage, Amritsar is proudly holding its status of an internationally known city not only historically but also in context of social welfare, philanthropic activity and higher learning. Guru Nanak Dev University located here carries a pleasant mélange of all that what is worth.



Maharaja Ranjit Singh Panorama



Maharaja Ranjit Singh Panorama is a permanent visual documentation of Maharaja Ranjit Singh who is more popularly known as ‘the Lion of Punjab’. National Council of Science Museums which is an autonomous organization of the Ministry of Culture, Government of India has conceptualized and set up this project in the sprawling 4.5 acres of land in the historic Rambagh Heritage Garden.

The University

Jeweled in west of Punjab, **Guru Nanak Dev University** was established at Amritsar on November 24th 1969 to mark the 500th birth anniversary of Guru Nanak Dev Ji.

In conceiving the future course of the university ,the objectives enshrined in the Guru Nanak Dev University act 1969 emphasized that the new University to make provisions for imparting education and promoting research in humanities , learned professions , science especially of applied nature and technology. **G.N.D.U.** ensures the standards of its degrees and it is a research based higher education institution dedicated to undergraduate and postgraduate teachings of the highest Quality in a research environment .Its degrees are designed to develop understanding and skills that enrich students personally and equip them for today's profession . It is an innovative and forward looking institution with a strong record of graduate employment. The University has changed and expanded over the course of its history of 40 years. But it has always maintained the principles of its founders to provide an institution open to all irrespective of race, creed or politic role of directing and monitoring the academic programs of more than hundred colleges located in the five districts Amritsar, Jalandhar, Kapurthala, Nawanshahar and Gurdaspur over the years. The university has built up a computerized library, state of the art labs, academic staff college, and all India service training centre, twenty four internet facility, and placement units.



In addition to academics, the university has also created necessary facilities for recreation and all round development of students and faculty in the form of department of Youth Services, NSS, a 900 seat all purpose auditorium, half a dozen seminar and conference halls, a modern high tech sports complex, sports hostel, faculty club, Health center, Baba Budha College Bhawan along with campus residential facilities for large number of students, teachers and administrative staff.

DEPT. OF FOOD SCIENCE & TECHNOLOGY

The department is offering B.Tech (Sugar and Alcohol Technology) – 4 year degree course, B.Tech (Food Technology) – 4 year degree course, M.Sc. (Food Tech) – 2 year degree course, Ph.D (Sugar/Alcohol/Food Technology). The main aim of this course is to train the technical manpower for the sugar/alcohol/food industries. The curriculum of the course is so designed that the students are imparted rigorous in-plant training for a total of seven months starting from 2nd year onward for the B.Tech programme and in-plant training for the M.Sc. students. It has the distinction of being the only course in India offering a B.Tech degree and caters to the needs of the sugar, distillery, brewery and winery industry, with presently students having placements in all these industries. It has been mainly possible due to the painstaking efforts put up by the faculty in understanding the needs of the day and modifying the syllabi from time to time and setting up laboratories to suit the industry of the day.

India is the second largest sugar cane grower in the world and with stress on low carbon emissions and Green Technology, sugar industry has gained its importance as it is the only industry which besides providing sugar also serves the energy sector from co – generation (capacity for 10,000 MW) and the power sector. Ethanol can be a viable alternative to gasoline as it is in Brazil, not only saving foreign exchange but also leading to zero carbon emission. Keeping this in mind the course was upgraded to Sugar & Alcohol Technology in 2005. Even countries like Sweden, Japan, USA, France etc are promoting ethanol.

The department is having Sugar Industry Testing centre with facilities of Kenchen Sucromat & Abbemat, Brookfield Rheometer, Near Infra red Spectrometer, UV- Visible Spectrophotometer, Gas Chromatograph, HPLC, Fermenter and Karl Fischer Titrator and other state of the art machinery. The testing for the samples from the sugar industry are done at nominal rates during the season and the revenue is deposited in the university funds.

The department is having the following teaching courses

1. B.Tech. Sugar & Alcohol Technology (4 Year Course)
2. B.Tech. Food Science & Technology (4 Year Course)
3. M.Sc Food Science & Technology (2 Year Course)
4. Ph.D

Extra Curricular Activities

Jashan:

This Inter department cultural festival is hosted by the university every year. It provides opportunities to the students to showcase their skills in the plethora of contests & other professional performances. Our department has always got good positions.



DEPARTMENT OF FOOD SCIENCE & TECHNOLOGY

FOOD TESTING LAB

The schedule of charges for various tests offered by the department

Sr. No.	Test	(Rs.) Rate per sample
1	Moisture	200
2	ash%	400
3	Gluten%(wet)	200
4	Gluten% (dry)	300
5	Farinograph properties	800
6	Falling number	500
7	Pelshenka test	400
8	Aleveograph test	600
9	Amylograph test	500
10	Granularity test	200
11	Microscope Analysis (Beverage)	600
12	Amylose test	500
13	Protein test	600
14	Soxhlet fat determination	500
15	Crude fiber content	500
16	SDS sedimentation value	300
17	pH	200
18	Titration acidity	200
19	TSS	200
20	Total sugars	300
21	Reducing sugars	300
22	Viscosity and rheology	1000
23	Grain hardness	300
24	Bread texture	500
25	Hunter colour values	500
26	Milk fat	300
27	Milk adulteration	500
28	Food adulteration	1000

1	Feasibility/viability report of industrial projects	1% of total project cost
2	Industrial consultancy (visit of faculty)	Rs. 10,000+TA DA of staff
3	*Membership of the department	Rs. 1,00,000

* Member companies will be given 50% discount in all the charges for 10 years.

DEPARTMENT OF FOOD SCIENCE & TECHNOLOGY

SUGAR INDUSTRY TESTING CENTRE

The schedule of charges for various tests offered by the department.

Sr.No.	Test	(Rs.) Rate per sample
1	Analysis of boiling house products by Sucrolyzer system for : a) Brix%, Pol% & Purity b) Pol % Bagasse c) Pol % Press mud	500 300 300
2	Analysis of juices/Massecurites for i) Colour (ICUMSA) ii) Phosphate iii) CaO iv) R.S.% v) T.Sugars	500 500 300 300 300
3	Analysis of Commercial sugar for i) Colour (ICUMSA) ii) Invert Sugar% iii) Moisture % iv) Pol% v) Conductivity Ash% SO content	500 300 200 200 200 300
4	Analysis of Quick lime for a) CaO% b) Moisture% c) Impurities (Silica%, Fe ₂ O ₃ %, Al ₂ O ₃ %)	500 200 1000
5	Analysis of Sulphur for : a) Sulphur% b) Ash% c) Arsenic% d) Moisture%	200 200 200 200
6	Complete Analysis of evaporator scale (for silica%, Fe ₂ O ₃ , Al ₂ O ₃ %, Ca ²⁺ , Mg ²⁺ , SO ₄ , C ₂ O ₄ , PO ₄)	3000
7	Determination of expected recovery of sugar cane by laboratory crusher method	1000
8	Mill Trail	10,000
9	Color audit of sugar factory	10,000
10	Viscosity measurements, rheological studies & comparison by Brookfield Rheometer	1000
11	Turbidity measurement by Maarc Lab Sucroscan	500
12	Seed Slurry size, photographs of sugar crystal by Digital Camera	1000

Collaborations with other departments at National and International level

- CSIC IATA, Spain
- National Food Research Institute, Japan
- Osaka City University, Japan
- Fukukama University, Japan,
- University of East Anglia, UK
- Kansas State University, USA
- National Agricultural Research Center for Hokkaido Region, Japan
- Mie University, Japan

Thrust areas of the Department

- Starch characterization and modification.
- Solid waste utilization of fruit and vegetable processing industry.
- Functional properties and characterization of plant proteins.
- Integrated processing of waste to produce multiple byproducts
- Functional food for celiac people.
- Barley and oat processing.
- Engineering properties of food materials

Placement of students

- Nestle India Ltd.,
- Pepsi Foods (P) Ltd.,
- Glaxo SmithKline Beechem Consumer Healthcare Ltd.,
- Cadbury's India Ltd.,
- Joyco,
- Heinz,
- Coca-Cola (P) Ltd,
- Cremica Agro Foods,
- Agro Dutch Food Ltd.,
- Bonn food Industries
- Amrit Banaspati Co. Ltd,
- Jagatjit Industries Ltd,
- Glacier Products (I) Pvt, Ltd,
- Himachal Pradesh Horticultural Produce Marketing & Processing Corporation Ltd, (HPMC)

Research Equipments available in the Department

- Dryers - Spray / Fluidised bed / Cabinet / Freeze dryer
- Oil expeller
- UV-Visible Spectrophotometer
- Cooling Centrifuge
- Electrophoresis
- HPLC
- Gas Permeation Chromatography
- Rotational Viscometer
- Texture Analyzer
- Differential Scanning Calorimeter
- Alveograph, Farinograph, Falling Number Apparatus
- Baking Oven, fermentation Cabinet, Molder, dough Mixer
- Mac Gill Rice Dehuller and polisher
- Moisture Analyzer
- Microscope Olympus with Digital Camera
- Sonicator, Fermentor, Rotary Vacuum Evaporator
- Rapid Visco Analyzer

REGISTRATION FORM

1. Organization: _____

2. Contact Person: _____

3. Postal address: _____

4. Tel no. _____ Fax no. _____

5. E-mail: _____

6. Mobile no.: _____

7. Arrival date at Amritsar: _____

8. Departure date from Amritsar: _____

Date:

Signature

SPONSORSHIP / STALL REGISTRATION FORM

Sponsoring companies will be highlighted at the venue & stall section. They will be given five minutes time for presentation. Stalls will be allotted on first come first serve basis.

Stall charges (at the venue) (10×10 sq ft.) : Rs. 10,000/-
Stall charges (outside the venue) : Rs. 2,000/-
Sponsorship : Rs. 1,00,000/-

1. Organization: _____

2. Postal address: _____

3. Contact person: _____

4. Tel. no. _____ Fax no. _____

5. E-mail: _____

6. Mobile no.: _____

7. Sponsorship/stall facility: _____

8. Arrival date at Amritsar: _____

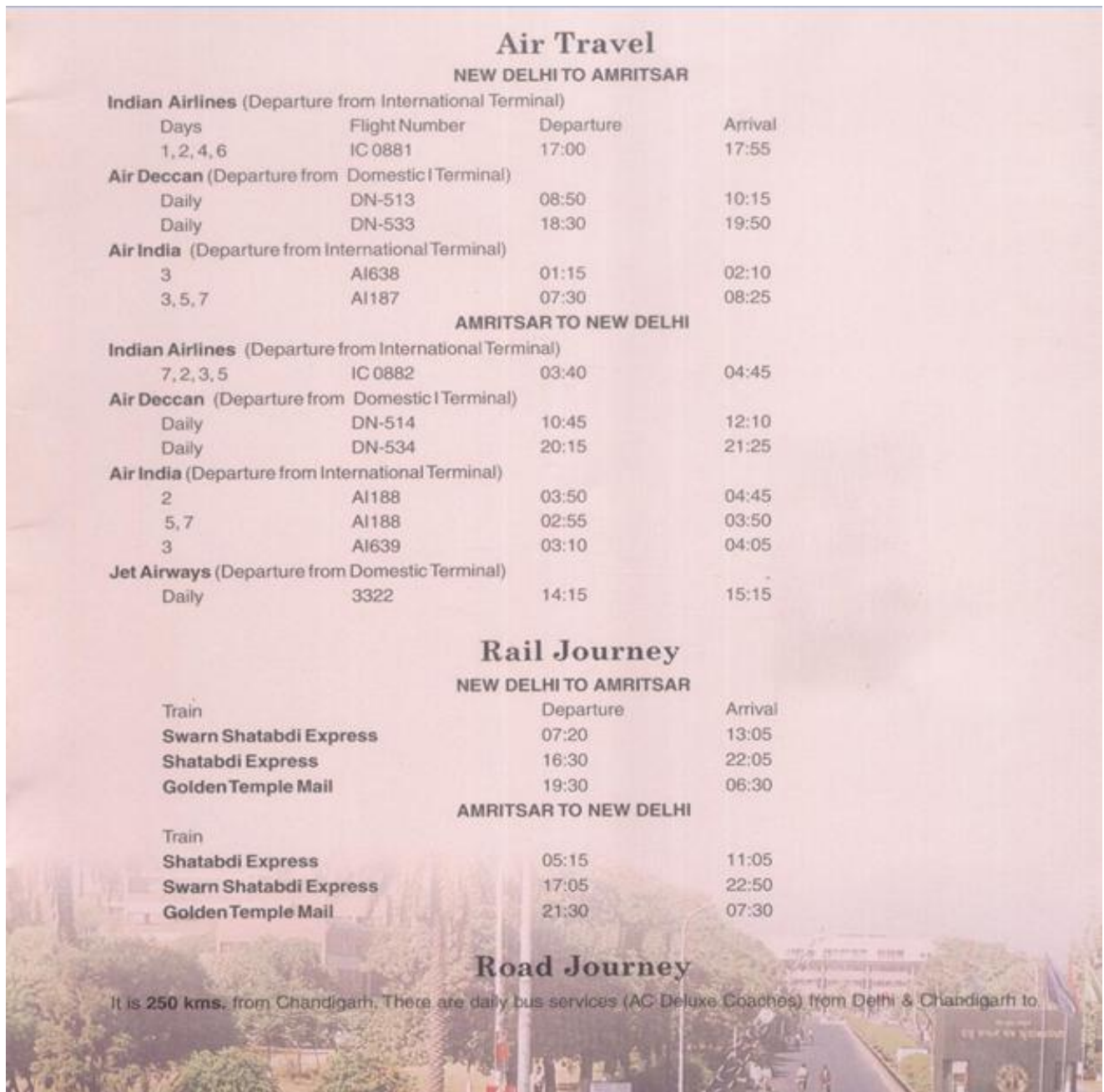
9. Departure date from Amritsar: _____

Date:

Signature

How to reach us

Guru Nanak Dev University is situated on the Grand Trunk Road, just 15 km away from the Raja Sansi International Airport. It is 450 km. far from Delhi and it is easily approachable by air, rail, and bus services. Special lodging facilities can be provided to all the visitors in the campus guest house itself. University guest house is specially designed and maintained to cater all your VIP requirements. Hotel accommodation can also be arranged, if so desired.



Air Travel

NEW DELHI TO AMRITSAR

Indian Airlines (Departure from International Terminal)			
Days	Flight Number	Departure	Arrival
1, 2, 4, 6	IC 0881	17:00	17:55
Air Deccan (Departure from Domestic Terminal)			
Daily	DN-513	08:50	10:15
Daily	DN-533	18:30	19:50
Air India (Departure from International Terminal)			
3	AI638	01:15	02:10
3, 5, 7	AI187	07:30	08:25

AMRITSAR TO NEW DELHI

Indian Airlines (Departure from International Terminal)			
7, 2, 3, 5	IC 0882	03:40	04:45
Air Deccan (Departure from Domestic Terminal)			
Daily	DN-514	10:45	12:10
Daily	DN-534	20:15	21:25
Air India (Departure from International Terminal)			
2	AI188	03:50	04:45
5, 7	AI188	02:55	03:50
3	AI639	03:10	04:05
Jet Airways (Departure from Domestic Terminal)			
Daily	3322	14:15	15:15

Rail Journey

NEW DELHI TO AMRITSAR

Train	Departure	Arrival
Swarn Shatabdi Express	07:20	13:05
Shatabdi Express	16:30	22:05
Golden Temple Mail	19:30	06:30

AMRITSAR TO NEW DELHI

Train	Departure	Arrival
Shatabdi Express	05:15	11:05
Swarn Shatabdi Express	17:05	22:50
Golden Temple Mail	21:30	07:30

Road Journey

It is 250 kms. from Chandigarh. There are daily bus services (AC Deluxe Coaches) from Delhi & Chandigarh to