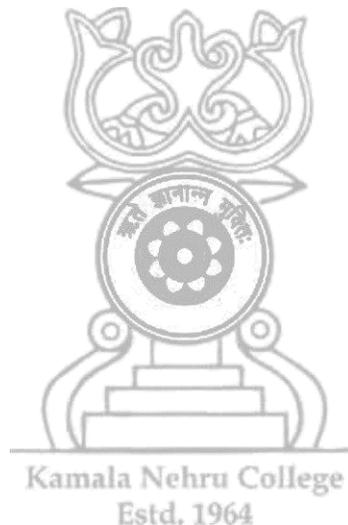




SUPPORTING DOCUMENT OF 1.2.2

ADD ON AND CERTIFICATE PROGRAMS (DETAILS OF CERTIFICATE COURSES)



INDEX

| | <u>YEAR 2020-21</u> |
|----------|---|
| 1 | CERTIFICATE COURSE IN GIS MAPPING AND DATA ANALYSIS <ul style="list-style-type: none">• Course Outline• Course Outcome and Assessment Process• Letter of Industrial Incubation Federation• Poster of GIS• MOU of GIS |
| 2 | CERTIFICATE COURSE IN TOURISM AND TRAVEL AUTOMATION <ul style="list-style-type: none">• Course Outline• Course Outcome and Assessment Process• MOU• Webinar of CCTTA• Poster of CCTTA |
| 3 | COMPUTATIONAL RESOURCES AND APPLICATION FOR SANSKRIT <ul style="list-style-type: none">• Brochure• Course Outcome• Assessment Process |
| 4 | FOUNDATION COURSE IN YOGA <ul style="list-style-type: none">• Poster• Concept Note• Information for Students• Syllabus• Course Outcome• Assessment Process |
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| 5 | BASICS OF GEOGRAPHICAL INFORMATION SYSTEM <ul style="list-style-type: none">• Course Outcome• Assessment Process• Certificate from IIRS-ISRO |
| 6 | APPLICATION OF GEOINFORMATICS IN ECOLOGICAL STUDIES <ul style="list-style-type: none">• Course Outcome• Assessment Process• Certificate from IIRS-ISRO |
| 7 | GEOINFORMATICS FOR DISASTER MANAGEMENT <ul style="list-style-type: none">• Course Outcome• Assessment Process• Certificate from IIRS-ISRO |
| 8 | BASICS OF REMOTE SENSING GEOGRAPHICAL INFORMATION |

| | |
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| | SYSTEM AND GLOBAL NAVIGATION SATELLITE SYSTEM. <ul style="list-style-type: none">• Course Outcome• Assessment Process• Certificate from IIRS-ISRO |
| | <u>YEAR 2019-20</u> |
| 9 | GEOGRAPHICAL INFORMATION SYSTEM <ul style="list-style-type: none">• Course Outcome• Assessment Process• Certificate from IIRS-ISRO |

Kamala Nehru College offers skill-oriented Certificate Courses to its students to achieve vocational qualifications besides their under graduate degree courses.

COURSES IN YEAR 2020-21

UGC-NSQF SCHEME

Government of India, taking note of the requirement for skill development among students, launched National Vocational Education Qualification Framework (NVEQF) which was later on assimilated into National Skills Qualifications Framework (NSQF). Various Sector Skill Councils (SSCs) are developing Qualification Packs (QPs), National Occupational Standards (NOSs) and assessment mechanisms in their respective domains, in alignment with the needs of the industry. UGC implemented the scheme of Community Colleges from 2013-14 in pilot mode on the initiative of the MHRD.

The following Certificate Courses were started by Kamala Nehru College under this Scheme.

- 1) Certificate Course in GIS Mapping and Data Analysis**
- 2) Certificate Course in Tourism and Travel Automation**

CERTIFICATE COURSE IN GIS MAPPING AND DATA ANALYSIS

(26th April, 2021)

The Job role opted by KNC under NSQF System is Survey Supervisor. Geo Information System Technique was used to impart students in the General category of the syllabus component along with Skill Component. 9 students were enrolled for Survey Supervisor (GIS) program.

Job Role: SURVEY SUPERVISOR (GIS).

In GIS program below given topic were taught to gain skills necessary for sustaining a job in the company as survey supervisor.

GIS course duration was 280 Hours (6 Months) this course seats.

Assessment done- MESPC –NSDC, Govt. of India

| One Semester | | | Hours |
|---------------------|-----------------------------------|-----------------|--------------|
| 1 | Understanding map | General Subject | 14 |
| 2 | Concept of GIS | General Subject | 14 |
| 3 | Data Acquisition technique | General Subject | 17 |
| 4 | Surveying | Core Subject | 17 |
| 5 | Modern Surveying Technique | Core Subject | 36 |

| | | | |
|----------------------------|---|--------------|---------|
| 6 | Operations in Surveying | Core Subject | 18 |
| 7 | Linking surveying data with spatial analysis | Core Subject | 20 |
| 8 | Project Execution | Core Subject | 10 |
| TOTAL | | | 146 |
| Practical/Skills: | | | |
| Industrial training | | | 120 |
| Industrial visits | | | 4 |
| Minor Project: Seminar | | | 2 weeks |
| Assignments/Demonstrations | | | |
| Case Studies | | | 2 days |

Guest lectures can be used as per convenience for different topics.

- **Profile : Survey Supervisor** (Using with GIS)
- **No. of Students : 9**
- **Trainer Name : Dr. Bratiti Dey**
- **Training Mode : Online**

IEST FEDERATION is an industrial training partner of **NSDC-MEPSC** and was responsible in coordinating and implements the project along with **KNC as per the guidelines under UGC-NSQF scheme.**

COURSE OUTCOME: The Course is job oriented and has practical relevance. After its completion the students will be able to create maps in GIS platform; learn Geospatial data analysis; Data visualization; Concept of DBMS and Metadata; Fundamentals of Surveying; Modern Surveying tools and Techniques; and Project Execution.

ASSESSMENT PROCESS: Regular Assessment including final exam followed by internship programme.

औद्योगिक उद्यमिता और कौशल प्रशिक्षण महासंघ
INDUSTRIAL INCUBATION OF ENTREPRENEURSHIP AND SKILL TRAINING FEDERATION

Registered Address

Plot no. 38, Sector 9 Dwarka,
New Delhi-110077

Corporate Address

IIEST, Building No-55, Pandit Jawahar
Marg, Opposite Metro Pillar No. 6
at Ramakrishna Ashram Metro Station,
Connaught Place, New Delhi

Contact No:

+011-23561117

+91-9910729809

Website:

www.iiestedu.org

Date : 13th July 2020

To,
The Principal,
Dr. Kalpana Bhakuni
Kamala Nehru College,
August Kranti Marg, New Delhi-110049

Subject : Request Letter for proposed MOU as Industry Partner for the purpose of Skill Based Education under National Skills Qualifications Framework for UGC Scheme.

Dear Ma'am,

With reference to our discussion regarding proposed course under Skill Based Education under National Skills Qualifications Framework for UGC Scheme, I am proposing a skill- based course directing towards Geo- Informatics Industry.

The proposed course is analyzed carefully & valued by Geo Informatics Company Experts.

IIEST Federation as NSDC Industry -cum-Training Partner has promoted this knowledge and resources, through our Geo-Informatics experts (Hantech Engineering & Technologies Pvt Ltd's training wing, NIGMT Foundation), as useful tool not only for the students/ trainees, but also for the trainers/facilitators who are involved in Skill Training in Geo Informatics Industry.

We wish to share this knowledge with Kamala Nehru College as its Industry Partner, under the scheme of UGC (Skill Based Education under National Skills Qualifications Framework)

We look forward for coordination & collaboration as Knowledge partner with KNC

With Regards



Dr. Priyanka Bhardwaj
Director(Intellect)
IIEST Federation



Industrial Incubation Federation

U80102DL2013NPL255158



Poster of GIS Mapping and Data Analysis



KAMLA NEHRU COLLEGE

(UNIVERSITY OF DELHI)

Accredited 'A' Grade (CGPA 3.33) by NAAC

ADMISSION OPEN TILL 20TH DECEMBER 2020

OFFERS A CERTIFICATE COURSE IN GIS MAPPING AND DATA ANALYSIS

Duration

280 Hours (6 months)

Minimum Qualification 12th / Age No Bar

Mode : Offline Class

Seats : 30 Only Females Candidate

WHAT WILL YOU LEARN?

Understanding map
Creation of maps in GIS platform
Geospatial data analysis
Concept of DBMS and Metadata
Data visualisation

Fundamental of Surveying
Modern surveying tools & techniques
Data acquisition platforms
Pre and Post surveying
Project execution

HIGHLIGHTS

Session by GIS experts
Interactive sessions
Practical based classes
Case studies
Field surveying
Regular Assessment

On completion of course
candidate will receive a
certificate from MEPSC,
NSDC

Training & Assessment Partner
IEST Federation & MEPSC (SSC-NSDC)

ENTRY JOB ROLE:

GIS Executive | GIS Engineer | GIS Assistant | GIS Technician
GIS Mapping & Data Analysis | GIS Survey Supervisor
Field Survey Enumerator

Fees : INR 11,800/-

TO REGISTER LOGIN TO

ADMISSION OPEN

CONTACT

kamla.nehru_du@hotmail.com

Aarti Chaudhary

+91 9910729809



MOU GIS Mapping and Data Analysis



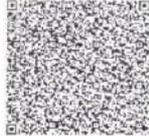
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

| | |
|---------------------------|--|
| Certificate No. | : IN-DL13082013442471S |
| Certificate Issued Date | : 02-Dec-2020 04:53 PM |
| Account Reference | : IMPACC (PF)/ dl766013/ DELHI/ DL-DLH |
| Unique Doc. Reference | : SUBIN-DL76601330847900718973S |
| Purchased by | : IEST FEDERATION |
| Description of Document | : Article Others |
| Property Description | : Not Applicable |
| Consideration Price (Rs.) | : 0 (Zero) |
| First Party | : IEST FEDERATION |
| Second Party | : KAMALA NEHRU COLLEGE |
| Stamp Duty Paid By | : IEST FEDERATION |
| Stamp Duty Amount(Rs.) | : 10 (Ten only) |



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Statutory Alert

1. To ascertain validity of this Stamp certificate, please visit at www.licestamp.com/ or using e-Stamp Mobile App of Stock Holding Company Technology or the details on the Certificate and as available on the website / Mobile App readers. It would
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy, please inform the Competent Authority.

**MEMORANDUM OF UNDERSTANDING
BETWEEN KAMALA NEHRU COLLEGE AND
IEST FEDERATION**

This Agreement ("AGREEMENT") is executed and made effective this 1st day of Dec ,2020 by and between

Industrial Incubation of Entrepreneurship & Skill Training Federation (IEST Federation), a not-for-profit company, registered under section 8 companies act, the laws of India, having its registered office at building no. 55 Panchkuian Marg, Connaught Place, New Delhi-110001 (herein after referred to as **IEST Federation** which term shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and assigns) of the first part;

AND

Kamala Nehru College, August Kranti Marg, New Delhi-110049 (hereinafter referred to as "**KNC**" and which expression shall unless it be repugnant to the context or meaning thereof deemed to mean and include its executors successors and assigns) of the second party.

IEST Federation and the KNC are hereinafter referred to individually as "Party" and collectively as "Parties".

WHEREAS IEST Federation is a not-for-profit company imparting awareness, training, & handholding to young members in sustainable employment and sustainable self-employment through under government of India aegis .

WHEREAS KNC which offers skill-oriented Certificate Courses to their students to achieve vocational qualifications besides their Under Graduate degree courses. In this regard KNC desires to offer the Certificate Course in **Certification in GIS Mapping & Data Analysis** for a duration of 6 months under UGC scheme of 'National Skills Qualifications Framework' (NSQF) to their students for 30 credits after 10+2 and IEST Federation agrees to be the knowledge partner in Certificate Course of 6 months in **Certification in GIS Mapping & Data Analysis** to the students of KNC. Both the parties are bound by the guidelines of NSQF guidelines of UGC.

NOW therefore, in consideration of the mutual agreement hereinafter set forth, and other good and valuable considerations, the Parties hereby agree as follows:

1. IEST FEDERATION OBLIGATIONS

- 1.1 The IEST Federation will be the industry partner of the program.
- 1.2 The institution may engage the expert/trainer from the industry partners.
- 1.3 The visibility may be given to the industrial partner through the program.
- 1.4 The Workshops and field visits may be organized in collaboration with the industry partner.

2. KNC OBLIGATIONS

CERTIFICATE COURSE IN TOURISM AND TRAVEL AUTOMATION

(26th April, 2021 to 25th October, 2021)

Kamala Nehru College offered skill-oriented **Certificate Course in Tourism and Travel Automation (CCTTA)** of a duration of 6 months under UGC scheme of 'National Skills Qualifications Framework' (NSQF) to the students for 30 credits after 10+2. In Nov 2020 Bird Academy agreed to be the knowledge /industry partner to offer Certificate Course of 6 months in **Certificate Course in Tourism and Travel Automation (CCTTA)** to the students of KNC. Both the parties are bound by the guidelines of NSQF guidelines of UGC.

In consideration of the mutual agreement Bird Academy designed, developed and conducted the **CCTTA** Certificate Course. Training covering a duration of 270 hours inclusive of online classroom and expert interaction, assignments and certification test.

The course was distributed as follows:

Tour operations & Itinerary planning: 90 hrs (including test)

Airfares and Ticketing: 100 hrs (including test)

Computerised Reservation System (Amadeus): 50hrs (including test)

Soft skill: 30hrs

Course Outcome: The course is designed to enhance the skills and knowledge of travel and tourism industry aspirants; preparing them for entry level jobs at the airports, travel agency, front desks and similar jobs. It will also give in-depth knowledge of airfares and ticketing.

Assessment Process: Regular assessment including assignments and final exam (certification test).

MOU Tourism and Travel Automation



सत्यमेव जयते

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Government of National Capital Territory of Delhi

e-Stamp

Certificate No. : IN-DL13945138079276S
Certificate Issued Date : 04-Dec-2020 03:02 PM
Account Reference : IMPACC (IV)/ dl777403/ DELHI/ DL-DLH
Unique Doc. Reference : SUBIN-DL7740332408646849114S
Purchased by : BIRD ACADEMY
Description of Document : Article Others
Property Description : Not Applicable
Consideration Price (Rs.) : 0
(Zero)
First Party : BIRD ACADEMY
Second Party : KAMALA NEHRU COLLEGE UNIVERSITY OF DELHI
Stamp Duty Paid By : BIRD ACADEMY
Stamp Duty Amount(Rs.) : 100
(One Hundred only)



.....Please write or type below this line.....

AGREEMENT

This Agreement ("AGREEMENT") is executed and made effective from 27th day of November, 2020 by and between

Bird Education Society for Travel & Tourism, a society registered under the laws of India, having its registered office at E-9, Connaught House, Connaught Place, New Delhi 110001 ((herein after referred to as "Bird Academy "which term shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and assigns) of the first part;

AND

Kamala Nehru College, August Kranti Marg, New Delhi-110049 (hereinafter referred to as "KNC")

PRINCIPAL
KAMALA NEHRU COLLEGE
(University of Delhi)
August Kranti Marg
NEW DELHI-110 049

[Handwritten Signature]

[Handwritten Signature]



Webinar-CCTTA



Bird Academy and Kamala Nehru College
cordially invite you to a webinar on

Insight to Certificate course in Tourism and Travel Automation

On 20th January 2021
Wednesday 01:00 PM to 2:00 PM

<https://bit.ly/3ql6dHq>

Meeting ID: 837 5889 3137

Passcode: 680753

Speakers



MS. MEENAKSHI DUA
Country Head - Education
Bird Group



MS. VINEETHA G
Manager Training
Bird Academy

- facebook.com/birdacademy
- instagram.com/bird_academy_official
- linkedin.com/company/bird-academy/
- twitter.com/academy_bird
- quora.com/profile/Bird-Academy-1

birdacademy.in

Poster of CCTTA



Certificate Course in Tourism and Travel Automation (CCTTA)

Kamala Nehru College, University of Delhi and Bird Academy jointly brings to you Certificate Course in Tourism and Travel Automation (CCTTA) for a duration of 6 months under UGC scheme of 'National Skills Qualifications Framework' (NSQF) to achieve vocational qualifications after 10+2. This course is designed to enhance the skills and knowledge of travel and tourism industry aspirants; preparing them for entry level jobs at the airports, travel agency, front desks and similar jobs. It will also give you an in-depth knowledge of airfares and ticketing concepts with experience of working on live GDS system and industrial visits.

Course duration - 6 months | **Course fee** - INR 11,000

Special price for the first batch - INR 6,500

Last date for admission : 25th March 2021

The classes will be online as per UGC guidelines.

Eligibility

12th passed from any stream | age no bar

Job Opportunities

Offline Travel Agencies | Tour Operators | Online Travel Agencies (OTA) | Consolidators | General Sales Agents (GSA) | Airline Reservation Offices | Travel Institutions

Register for the course here: <https://forms.gle/dKqlyUvmnSsHoogFA>

Contact

Email: kamla.nehru_du@hotmail.com

Bird Academy, L - 40, Connaught Circle, Connaught Place, New Delhi 110001

+91 11-43527843/45, +91 9910011849 | vgr@bird.in

COMPUTATIONAL RESOURCES AND APPLICATION FOR SANSKRIT (BROCHURE/POSTER)

(March 15-30, 2021)



Kamala Nehru College

University of Delhi



30 hours Online National Level Certificate Course on Computational Resources and Application for Sanskrit

March 15-30, 2021 | 04PM - 06 PM
(on Zoom)

Inauguration Session: March 15, 2021, 04:00-06:00 PM



Chief Guest
Prof. Suman Kundu
Director South Campus
University of Delhi



Patron
Dr. Kalpana Bhakuni
Principal, Kamala Nehru College
University of Delhi



Keynote
Prof. Girish Nath Jha
School of Sanskrit & Indic Studies
Jawaharlal Nehru University

Our Esteemed Resource Persons from Academia and Industry



Dr. Subhash Chandra
University of Delhi



Dr. Sudhir K Mishra
CDAC, Pune



Dr. Diwakar Mishra
Amazon, India



Dr. Devendra S Rajput
Deshbandhu College



Dr. Vivek Kumar
Higher Education, Uttarakhand



Ms Anju
University of Delhi

Course Coordinator



Dr. Sarita Sharma
Kamala Nehru College

Topics to be covered:

- Computational Linguistics and Sanskrit
- Computational Linguistics Tools for Sanskrit: a survey
- Machine Translation
- Scripts, Fonts, Unicode, IAST transliteration
- Text editing/Typing tools for Sanskrit in Unicode
- Text Digitization and search for Sanskrit
- Sanskrit Grammar and Computation
- Web based Tool Development: HTML
- Web based Tool Development: HTML and CSS-1
- Web based Tool Development: HTML and CSS-2
- Web based Tool Development: Basics
- Speech Technology Development for Sanskrit
- Basics of Python for Programming-1
- Basics of Python for Programming-2
- Basics of Python for Programming-3



Kamala Nehru College

University of Delhi



30 hours Online National Level Certificate Course on

Computational Resources and Application for Sanskrit

March 15-30, 2021 | 04PM - 06 PM
(on Zoom/Google Meet/YouTube)

Sanskrit has a very rich tradition of knowledge of science and technology. In the era of Information Technology (IT), computers, tablets and smart phones have basically changed and innovated the methods of teaching and learning through the internet. Nowadays, everyone seeks the instant information over internet on computer, laptop, tablet and smart phones. Students don't want to carry the heavy reading materials. There are huge educational contents related to all subjects (except most of the Indian languages) are available online. The majority of students engaged in learning Sanskrit are familiar with Hindi medium. There are very limited contents available in Devanagari script for Sanskrit. To fulfill the requirement and availability of educational materials for Sanskrit needs more efforts need to be done in the form of training the new generation in the skillful techniques of content creation and development of various tools in the area mentioned above.

Therefore, Kamala Nehru College, Siri Fort, New Delhi, University of Delhi is organizing **15 days certificate programme** on **"Computational Resources and Application for Sanskrit"**. The major objective of the course is to provide hands-on training for e-resource creation and tools development for Sanskrit. The topics will include (but not limited to)– Computational resources, digitization of Sanskrit texts, preservation and accessibility mechanisms, development of critical tools and application of Sanskrit.

Topics to be covered:

- Computational Linguistics and Sanskrit
- Computational Linguistics Tools for Sanskrit: a survey
- Machine Translation
- Scripts, Fonts, Unicode, IAST transliteration
- Text editing/Typing tools for Sanskrit in Unicode
- Text Digitization and search for Sanskrit
- Sanskrit Grammar and Computation
- Web based Tool Development: HTML
- Web based Tool Development: HTML and CSS
- Web based Tool Development: HTML and CSS
- Web based Tool Development: Basics
- Speech Technology Development for Sanskrit
- Basics of Python for Programming
- Basics of Python for Programming
- Basics of Python for Programming

Registration:

Scan Code for Registration

Registration Link:

<https://forms.gle/qm5shGhHgXQfZDe8A>



During the registration payment proof to be uploaded in pdf of jpg format.

Important Date:

Last date of Registration:

March 13, 2021

Registration Fee:

| | |
|--------------------|-----------|
| Faculty Members: | Rs. 750/- |
| Research Scholars: | Rs. 500/- |
| Students: | Rs. 250/- |

Registration fee to be deposited in following College account:

| | |
|-------------------|-------------------------------------|
| Account No.: | 10732134358 |
| Name Beneficiary: | K. N. C. |
| Bank: | State Bank of India |
| Branch: | South Ext. Part 2, New Delhi-110049 |
| IFSC | SBIN0003219 |

Target audience:

Any student, researcher or entrepreneur who is interested in promoting Sanskrit in the digital world. The e-certificate will only be given to those registered participants who will complete all the sessions of 15 days and submit feedback forms.

Program Coordinator:

Dr. Sarita Sharma
Assistant Professor
Kamala Nehru College
Delhi University, New Delhi
Contact Email: CRAS.knc@gmail.com
Mobile: [9717388739](tel:9717388739)

Patron:

Dr. Kalpana Bhakuni
Principal
Kamala Nehru College
Delhi University, New Delhi
<https://www.knc.edu.in>

COURSE OUTCOME: The Department of Sanskrit organized a 30 hour Online National Level Certificate Course on Computational Resources and Application for Sanskrit from 15-30th March, 2021 via e-educational platforms such as Google Meet and Zoom. The course was focused on basic computational tools elementary for enhanced Sanskrit learning. It was definitely a huge success as it opened avenues for Computational Linguistics (CL) education in Sanskrit background. The scholars who participated in the workshop received theoretical knowledge about the components of CL such as basic typing and text editing tools, they were furnished with knowledge of different fonts, scripts, Unicode, transliteration modules, basics of web development and introductory lesson in speech technology. Each member got hands-on practice for HTML, CSS and python. Everyone who joined was able to garner practical knowledge and it as well, developed enthusiasm for CL aspect in traditional Sanskrit learning methodologies.

ASSESSMENT PROCESS: At the end of the 30 hours online course, assessment process took place. The mode of assessment also remained online (Computer based test or CBT). It was a multiple-choice questionnaire test, consisting of 25 questions each marked at 2 points. KNC team has maintained a response sheet for the examination conducted as per which, a total of 104 attendees gave the test, individual answer script was delivered and average score card ranged from 28-50 which resulted in the average percentage of 41-42%.The mode of assessment was appropriate to assess the knowledge trends and analyze the learning graph.

ATTENDANCE: A total of 104 academicians, scholars and students from across the country joined this national certificate course. The technical team meticulously maintained the electronic attendance of each minute rigorously for 15 days. Every participant maintained the 95% attendance and actively participated in the practical sessions. The attendance record thus, stands for 104 participants with each of them receiving duly signed certificates.

FOUNDATION COURSE IN YOGA

(1st April, 2021 to 17th May, 2021)



DEPARTMENT OF PHYSICAL EDUCATION
KAMALA NEHRU COLLEGE

(UNIVERSITY OF DELHI)

ORGANIZES

FOUNDATION COURSE IN YOGA

COURSE DURATION: 34 HOURS

COURSE COMMENCEMENT: 01-04-2021

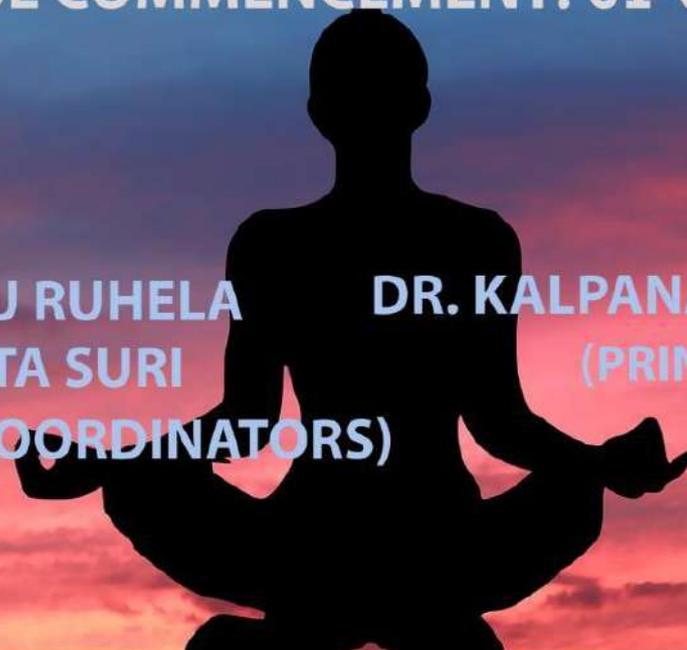
DR. SARYU RUHELA

DR. SHWETA SURI

(COURSE COORDINATORS)

DR. KALPANA BHAKUNI

(PRINCIPAL)



CONCEPT NOTE:

Yoga has now become an integral part of our life and is gaining popularity not just in India but all across globe. Yoga helps in reducing stress and helps in improving immunity and can help an individual achieve balance at physical, mental, emotional and spiritual level. It is evident that an individual is wealthy when he/she is healthy. Thus, the idea behind this 34-hour course is to make the students aware of the importance of healthy living and to lay the foundation that may help the individual towards self realization.

Also in view of the prevailing situation of covid-19 pandemic it was felt that there was a need to conduct such a course for the students to prepare them physically and mentally strong and develop their immunity through Yoga, to come out of this crisis.

INFORMATION TO THE STUDENTS FOR REGISTRATION

Dear Students

Department of Physical Education is conducting **ONLINE FOUNDATION COURSE IN YOGA (Course Duration- 34 hours)** tentatively starting from 1st April 2021. The objective of this course is to introduce the fundamental principles and practices of Yoga for healthy living.

IMPORTANT INFORMATION

- This course is open for NSO students (IInd and IIIrd Year) and B.A (Prog.) Physical Education students.
- This course is only for sincere participants ,who are willing and eager to gain the benefits of Yoga for healthful living or to make a career in yoga
- The participants are requested to register themselves by filling the Google form latest by 30-03-2021.
- There will be daily online classes in the evening, the details of which will be shared soon.
- It is mandatory for everyone to participate in the Quiz on the final day of the Course for assessment.
- The certificate will be issued only to those participants who will attend all the classes and respond to the final Quiz.
- Classes will be held on G-Suite (Google Meet) and the link will be shared with all every day 10 minutes before the commencement of class.
- **NOTE:** Link for Google Form: <https://forms.gle/pw8LS5rQr8vAxUPD8>

Course Coordinators

Dr. Saryu Ruhela

Dr. Shweta Suri

(Dept. Of Phy.Edu.)

SYLLABUS

Theory

1. Yoga: Etymology, definitions, aim, objectives and misconceptions.

2. Guiding principles to be followed by Yoga practitioners.

3. Introduction to Yogic Sukshma Vyayama ,Sthula Vyayama.

4. Introduction to Surya Namaskara: Technique & health Benefits

5. Introduction to Yogasana: meaning, principles, and their health benefits.

6. Introduction to Pranayama: meaning, principles, and their health benefits.

7. Ashtang Yoga of Maharishi Patanjali: Bahiranga and Antaranga Yoga

8. Yogic management of stress and its consequences. Practical

1. Prayer: Concept and recitation of Prana vaandhymns.

2. Yoga Cleansing Techniques

i) Knowledge of Dhauti, Neti

ii) Practice of Kapalabhati.

3. Yogic Sukshma Vyayamaand Sthula Vyayama

- **Yogic Sukshma Vyayama (Micro Circulation Practices)**
- **Neck Movement Griva Shakti Vikasaka (I,II,III,IV)**
- **Shoulder Movement Bhuja Valli Shakti Vikasaka Puma Bhuja Shakti Vikasaka**
- **Trunk Movement Kati Shakti Vikasaka (I,II,III,IV,V)**
- **Knee Movement Jangha Shakti Vikasaka (II-A&B)
Pindali Shakti Vikasaka Kriya**
- **Pada-mula shakti Vikasaka–A &B**
- **Ankle movement Gulpha-pada-pristha-pada-talashakti Vikasakab. Yogic**

Sthula Vyayama (Macro Circulation Practices)

- **Sarvanga Pushti**
- **Hrid Gati (EngineDaud)**

4. Yogic Surya Namaskara

5. Yogasana

- **Tadasana, Vrikshasana, Ardha Chakrasana, Padahastasana, Kati Chakrasana, Trikonasana**
- **Dandasana, Sukhasana, Padmasana, Vajrasana,**
- **Bhadrasana, Mandukasana, Ushtrasana, Shashankasana, Uttana Mandukasana**
- **Paschimottanasana, Purvottanasana,**
- **Vakrasana, Gomukhasana**
- **Bhujangasana, Shalabhasana, Dhanurasana, Makarasana**
- **Setubandhasana, Uttanapadasana, Ardha Halasana, Pavanamuktasana**
- **Vipareetakarani, Saral Matsyasana, Shavasana,**

6. Preparatory Breathing Practices

- **Section all breathing (abdominal, thoracic and clavicular)**
- **Yogic deep breathing**

7. Pranayama

- **Concept of Puraka, Rechaka and Kumbhaka**
- **Anuloma Viloma /Nadi Shodhana**
- **Sheetali (without Kumbhaka)**
- **Bhramari (without Kumbhaka)**

8. Practices leading to Dhyana

IMPORTANT INFORMATION RELATED TO COURSE

Dear Students

Thanks for registering yourself in the "Foundation Course in Yoga "organized by the Department of Physical Education from 1st April 2021 at 4:30 P.M. to 5:45PM.

As the online platform will be the Google Meet, kindly join **Google Classroom** by using **Class Code** mentioned below.

You are also requested to **join WhatsApp group**, kindly find the link below. These steps are mandatory for joining the course as all the relevant information and the link for joining classes will be shared on this platform.

CLASS CODE:54mh6w5

Follow this link to join WhatsApp group:

<https://chat.whatsapp.com/HWcuAb1LjxT55ShrC1aGn>

COURSE OUTCOME:

The participants of the course were from different disciplines but had the same goal of attaining a healthy lifestyle by practicing yoga. This course enabled the students to have the basic knowledge of Yoga and its practices.

ASSESSMENT PROCESS: It was based on questions related to practice of Yoga to test the participants understanding. The questions asked were as follows:

1. Which leg is used first while performing standing asanas?
2. What are the two basic asanas in which we sit before starting sitting asanas?
3. What is counter pose?
4. Which pattern we follow in asanas when we bend forward and when we bend backward.
5. The word yoga is derived from which Sanskrit word and what is the meaning of this word.
6. What are the three types of asanas.
7. What is sectional breathing?
8. Write down the various types of padmasana.
9. What should we keep in mind while performing asanas.
10. Which breathing pattern we follow while going up and while going down.
11. Why we should keep our back straight while sitting in sukhasana/ ardhpadamasana for prayer.
12. What is the difference between sukshamyayama and sthulavyayama
13. What are the 12 steps of suryanamaskara? Name them
14. What are the counter pose of these asanas:
 - a) Pashchimottan asana
 - b) Ardhushtasana
15. What is the difference between nadishodhan and anulomaviloma
16. What are the benefits of kapalbhati?
17. Why we perform relaxative asanas specially Shavasana?
18. What is Puraka, rechaka and kumbhaka ?
19. Write down the benefits of deep breathing.

INDIAN INSTITUTE OF REMOTE SENSING-INDIAN SPACE RESEARCH INSTITUTE OUTREACH PROGRAMS

Kamala Nehru College became a network institute for conducting Outreach Programmes of IIRS [Indian Institute of Remote Sensing], Indian Space Research Organization (ISRO), Department of Space, Government of India, Dehradun. The name of our Institute as a Nodal Centre is included in online application form of IIRS Outreach Programme.

1) 60TH IIRS-ISRO OUTREACH PROGRAMME ONLINE COURSE ON APPLICATION OF GEOINFORMATICS IN ECOLOGICAL STUDIES

13-07-2020 to 24-07-2020

Course Outcome:

This programme helped students to have more exposure on the field of Application of Geoinformatics in Ecological Studies. As Environmental Geography and GIS both are essential part of Geography, this course has helped to gain knowledge on this interlinked specialization. Online classes for this course were held by IIRS and attended by the participants from home due to covid restrictions against all odds.

Assessment Process:

On the basis of the online attendance students were being allowed to appeared for the final online examination scheduled by IIRS on specific slots. Their attendance was recorded in digital mode by IIRS. They appeared for the examination from home under strict guidelines and got certificates accordingly.

Attendance Record:

Attendance was recorded in digital mode by IIRS.

Certificate: Application of Geoinformatics in Ecological Studies



सत्यमेव जयते

भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



बहिः पारितारक संवेदक/ विलम्ब कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR6014782020

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि **कमला नेहरू कॉलेज, यूनिवर्सिटी ऑफ दिल्ली** ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम " **पारिस्थितिकी अध्ययन में भू-सूचना विज्ञान के अनुप्रयोग**" में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 13 जुलाई, 2020 से 24 जुलाई, 2020 तक किया गया।

This is to certify that **Kamala Nehru College, University of Delhi**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on "**Application of Geoinformatics in Ecological Studies**". This online programme was conducted during July 13, 2020 to July 24, 2020.

दिनांक/ Date: 15-09-2020
देहारादून/ Dehradun

प्रमुख,
निर्देशित संचालन, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

2) 64TH IIRS-ISRO OUTREACH ONLINE COURSE ON BASICS OF REMOTE SENSING GEOGRAPHIC INFORMATION AND GLOBAL NAVIGATION SATELLITE SYSTEM.

17/08/2020 to 20/11/2020

COURSE OUTCOME: Online Course on Basics of Remote Sensing & Geographic Information System helped students to understand the usability and applicability of RS & GIS in a combined mode. Both are essential for better understanding on spatial data modeling. Online classes for this course were attended by the participants from home due to covid restrictions.

Assessment Process:

On the basis of the online attendance students were being allowed to appeared for the final online examination scheduled by IIRS on specific slots. Their attendance was recorded in digital mode by IIRS. They appeared for the examination from home under strict guidelines and got certificates accordingly.

Attendance Record:

Attendance was recorded in digital mode by IIRS.

Certificate: 64TH IIRS Outreach Programme on Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System.

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|  सत्यमेव जयते | भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA |  इसरो ISRO |
| | महि: पाठ्य संस्क/ विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME | COR6414782020 |
| | संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE | |
| <p>यह प्रमाणित किया जाता है कि कमला नेहरू कॉलेज, यूनिवर्सिटी ऑफ दिल्ली ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादन द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम रिमोट सेन्सिंग, जीआईएस और जीएनएसएस के मूलभूत सिद्धांत में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 17 अगस्त, 2020 से 20 नवंबर, 2020 तक किया गया।</p> <p>This is to certify that Kamala Nehru College, University of Delhi, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System. This online programme was conducted during August 17, 2020 to November 20, 2020</p> | | |
| दिनांक/ Date: 24-12-2020 देहरादून/ Dehradun | प्रमुख, विशेष संचालक, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS | समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS |

3) IIRS-ISRO 75TH OUTREACH PROGRAM ON GEOINFORMATICS FOR DISASTER MANAGEMENT

05/04/2021-16/04/2021

Course Outcome:

Outreach Programme on Geoinformatics for Disaster Management was a specialised course with added modules and specification. Online classes for this course were attended by the participants from home due to covid restrictions.

Assessment Process:

On the basis of the online attendance students were being allowed to appeared for the final online examination scheduled by IIRS on specific slots. Their attendance was recorded in digital mode by IIRS. They appeared for the examination from home under strict guidelines and got certificates accordingly.

Attendance Record:

Attendance was recorded in digital mode by IIRS.

Certificate: Geoinformatics for Disaster Management

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|  सत्यमेव जयते | भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA |  |
| | बतितः पोस्टार नमूने/ विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME | COR7514782021 |
| | संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE | |
| <p>यह प्रमाणित किया जाता है कि कमला नेहरू कॉलेज, यूनिवर्सिटी ऑफ दिल्ली ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम “आपदा प्रबंधन में भू-सूचना विज्ञान का प्रयोग” में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 05 अप्रैल, 2021 से 16 अप्रैल, 2021 तक किया गया।</p> <p>This is to certify that Kamala Nehru College, University of Delhi, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on “Geoinformatics for Disaster Management”. This online programme was conducted during April 05, 2021 to April 16, 2021.</p> | | |
| दिनांक/ Date: 09-06-2021 देहरादून/ Dehradun | प्रमुख, नियोजन सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS | समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS |

4) IIRS –ISRO 88TH PROGRAMME ON BASICS OF GEOGRAPHICAL INFORMATION SYSTEM

27-09-2021 to 22-10-2021

Course Outcome:

During pandemic time this programme on Basics of Geographical Information System has created positive energy to learn something new from home by new undergraduate batches. Students learnt many new applications on GIS and open-source soft-wares. Online classes for this course was held and participants attended from home due to covid restrictions.

Assessment Process:

On the basis of the online attendance students were being allowed to appeared for the final online examination scheduled by IIRS on specific slots. Their attendance was recorded in digital mode by IIRS. Students appeared for the examination from home under strict guidelines and 44 students got certificates.

Attendance Record:

Attendance was recorded in digital mode by IIRS.

Certificate: Basics of Geographical Information System

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|  सत्यमेव जयते | भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA |  |
| | बर्हि: पीयूष संस्क/ गिरला कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME | COR2021881478 |
| | संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE | |
| <p>यह प्रमाणित किया जाता है कि कमला नेहरू कॉलेज, यूनिवर्सिटी ऑफ दिल्ली ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम भौगोलिक सूचना प्रणाली के मूलभूत सिद्धांत में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 27 सितम्बर, 2021 से 22 अक्टूबर, 2021 तक किया गया।</p> <p>This is to certify that Kamala Nehru College, University of Delhi, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on Basics of Geographical Information System. This online programme was conducted during September 27, 2021 to October 22, 2021</p> | | |
| दिनांक/ Date: 07-12-2021 देहरादून/ Dehradun | प्रमुख, विशेष संचालन, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS | समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS |

YEAR 2019-20

53RD IIRS-ISRO OUTREACH PROGRAMME ONLINE COURSE ON GEOGRAPHICAL INFORMATION SYSTEM

25-09-2019 to 28 -10- 2019

Course Outcome:

This programme helped students to have more exposure on the field of Geographical Information System which was also a part of their syllabus. Regular classes for this course were held purely on physical mode at Kamala Nehru College in 2019 by streaming live lectures, group discussions from IIRS, Dehradun conducted by senior faculty members and scientists. This has provided ideas about the GIS industry and future research to the students.

Assessment Process:

On the basis of the attendance students were being allowed to appear for the final online examination scheduled by IIRS on specific slots. They appeared for the examination at Computer Lab of Kamala Nehru College under strict invigilation of teachers from Department of Geography. 24 students got certificates from IIRS after clearing the exam.

Attendance Record: Attendance was collected in physical mode by the coordinator and entered in IIRS data base which **copy is attached.**

Certificate: Geographical Information System

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|  | भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA |  |
| | नाम: पीएसए लेवर्क/ सिस्लार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME | COR5314782020 |
| | संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE | |
| <p>यह प्रमाणित किया जाता है कि कमला नेहरू कॉलेज, यूनिवर्सिटी ऑफ दिल्ली ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम "भौगोलिक सूचना प्रणाली" में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 25 सितम्बर, 2019 से 24 अक्टूबर, 2019 तक किया गया।</p> <p>This is to certify that Kamala Nehru College, University of Delhi, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on "Geographical Information System". This online programme was conducted during September 25, 2019 to October 24, 2019.</p> | | |
| दिनांक/ Date: 26-02-2020 देहरादून/ Dehradun | प्रमुख, विशेष संचालक, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS | समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS |