GURU NANAK KHALSA COLLEGE FOR WOMEN

GUJARKHAN CAMPUS, MODEL TOWN, LUDHIANA

SUPPORTING DOCUMENT

(Session 2020-2021)

CRITERION III

RESEARCH, INNOVATIONS AND EXTENSION

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Mrs. Maninder Kaur
Offg. Principal

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Guru Nanak Khalsa College for Women encourages students not only to absorb current knowledge but also to be enterprising and try to create new knowledge, products and ideas.

In 2020, with the outbreak of COVID-19, the learners, practitioners of education, and other stakeholders were at a loss, as it caused the suspension of physical classes and physical interaction of the learners. In these circumstances, E-learning, online learning, and the use of Information and Communications Technology (ICT) tools came in handy. It helped the teachers in the dissemination of ideas, conducting online classes, making online discussion forums, and conducting online examinations.

However, at our campus, the adoption of the new methods occurred seamlessly in our college. The college overcame the initial impediments swiftly. Due to the strong bond shared by our teachers, students, and administration, the college functioned in a harmonious and effective fashion even during such rough times.

The activities undertaken by several departments/ clubs/ societies have created an ecosystem for innovations and other initiatives for the creation and transfer of knowledge. Most important among these are:

- **Promoting Innovative online methods of transfer of knowledge:**

    a. Teachers switched to the use of ICT (Information and Communication Technology) enabled tools to enhance and facilitate the teaching-learning process. These tools encompassed a wide range of digital resources and technologies, including computers, tablets, interactive whiteboards, educational software, online platforms, and internet-based resources.

    b. Communication software like whatsApp, Gmail, Yahoo mail, Cloud-based data storage and sharing system, game-based assessment tools (Khoot, Quizziz), collaboration tool were adopted

    c. E-resources were optimized. ePathshala resources, Shodh Ganga, YouTube educational videos, SWAYAM/ NPTEL Course material were popularly used.

- **Skill Development:**

    a. In collaboration with **GNIMT,** the **Placement Cell** organized an **Online Skill Development Programme** on the theme "**Enhancing Communication Skills**" on January 21, 2021. Final year students of all streams participated in this event.

b. **Department of Computer Science and Applications** organized a **seven day Faculty Development Program on "Effective Online Facilitation**" on July 16-24, 2020. The resource persons for this training program were **Ms. Daisy Wadhwa and Mrs. Satwant Kaur** from the **Department of Computer Science and Applications.**

- **Online Courses/ Webinars/MOOCs/ FDPs:**

a. **Ms. Daisy Wadhwa, Assistant Professor and Head, Department of Computer Science and Applications** was appointed as a **Teaching Associate** for **NPTEL's workshop on Transition to Online Facilitation (TOF)** conducted by **Dr. Jayakrishnan M.** from May to June 2020.

b. **Dr. Nidhi** of **Dept. of Business Management and Commerce** was appointed as **Discussion Forum Moderator** in **MOOC Course "Designing Learner Centric MOOCs"** conducted by **IIT Bombay on SWAYAM** in January-February 2021.

c. **Ninety volunteers and two Program officers** of our college **registered for 'Yoga for Unity and Well Being' – a 100 day virtual program.**

d. Many teachers of our college completed **MOOC Courses, online workshops, webinars, and FDPs** during the session:

- **Mrs. Maninder Kaur** (**Dept. of Business Management and Commerce)** participated in **one day International Virtual Conference** on the topic **"Novel Corona and Novel Challenges: Life Ahead with COVID 19"** organized by **Shri Guru Gobind Singh College, Chandigarh** on June 03, 2020.
- **Mrs. Manmeet Kaur** (**Dept. of Business Management and Commerce)** attended **3-day online workshop** on **"Integrating Research and Technological Innovations for Effective Teaching and Learning"** from 24-26 May, 2021 organized by **Institute for Development and Communication, Chandigarh.**
- The following research activity was carried out by **Mrs. Punpreet Kaur (Dept. of Business Management and Commerce)** during the session:
  - She attended an **Online Workshop on Research Methodology** on the topic "**Logical Planning of Research Studies"** conducted by UCCM, Guru Kashi University Talwandi Sabo on May 28, 2021.
  - She completed a **National Level FDP** on the topic **"Technology and Instructional Reforms With Reference To Online Teaching, Learning & Evaluation"** organized by **CALEM, Panjab University Chandigarh** from July 15-20, 2020.
  - She attended an **International Webinar** on the topic **"Sustainable Business Practices"** organized by **PG Department of Commerce, S.D. College, Hoshiarpur** on July 10, 2020.
  - She attended a **Conference** on the topic **"National Capability Enhancement Conference: Education for Meaningful Life Part-2"** organized by **Punjab Commerce & Management Association** on June 30, 2020.

- She attended a **One day international Webinar** on the topic **"Economic Scenario in post-COVID era"** organized by **Dept. of Economics and Commerce, Malwa College Bondi, Samrala** on June 27, 2020.
- **Dr. Nidhi** of **Dept. of Business Management and Commerce** was appointed as **Discussion Forum Moderator** in **MOOC Course "Designing Learner Centric MOOCs"** conducted by **IIT Bombay on SWAYAM** in January-February 2021.
- **Mrs. Rajwinder Kaur (Dept. of Business Management and Commerce)** successfully completed **NPTEL Online Course** on **"Integrated Marketing Management"** in January- March 2021.
- The following contributions were made by **Mrs. Harpreet Kaur (Dept. of Fine Arts)** in the field of art:
  - She painted a **28×6 feet painting** in support of Farmer's Agitation at Singhu Border, New Delhi in December 2020.
  - Her painting was selected in **International Art Exhibition** on the theme **"COVID-19"** held by **Indian Royal Academy of Art and Culture, Karnataka** on July 5, 2020.
- Research activities of **Mrs. Kirti Loomba** (**Dept. of Mass Communication)** in the session 2020-21 were as follows:
  - Attended a number of **webinars** organized by **Delhi Metropolitan Institution, Noida** on various topic:

    - **"CYBER Media in New World Order"** held on June 01, 2020
    - **"Narrative Journalism versus Data Journalism"** held on June 02, 2020
    - **"Legal Rights of Migrant Labour"** held on June 05, 2020
  - Attended **one week International Faculty Development Program** on the topic **"Research Methodology"** organized by **Auxilium College, Vellore, Tamil Nadu** in association with **S.S.S. Jain College for Women, Chennai** from June 04-10, 2020
  - Attended a **Webinar** on the topic**, "Data Journalism for Investigative Reporting**" organized by **Doaba College, Jalandhar** on June 17, 2020
  - Presented Paper on the topic **"Effects of Social Media on the Language of Youth: A Study based on School Children of Ludhiana"** in a **ten day International Conference "ICAN³ 2020"** organized by **Delhi Metropolitan Education, Noida** from June 21-30, 2020
  - Attended a **Webinar** on the topic**, "Cinema, Literature, and Journalism**" organized by **APEEJAY Institute of Mass Communication, New Delhi** on July 10, 2020
- **Dr. Anupam Vatsyayan (Department of English)** completed **a 4 week online course** (January-February 2021) on the topic **"Designing Learner Centric MOOCs"** conducted by **IIT Bombay** on **NPTEL Swayam platform** and funded by the **Ministry of HRD, Govt. of India**.
- **Mrs. Gagneet Pal Kaur (Department of English)** attended and completed the following courses during the session:
  - **4 week online course** offered by **IIT Kanpur** on the topic **"Postcolonial Literature"** conducted by **NPTEL** in March 2021.

- ➢ **8 week online course** offered by **University of Hyderabad** on the topic **"English Literature of the Romantic Period 1798-1832"** conducted by **NPTEL** in March 2021.
- ➢ **8 week online course** offered by **IIT Madras** on the topic **"Postmodernism in Literature"** conducted by **NPTEL** in December 2020.
- The following are the achievements of **Ms. Daisy Wadhwa (Dept. of Computer Science and Applications)** during the session 2020-21:
  - ➢ She **conducted two sessions titled "Balance with Blended Learning"** and **"Designing Learner-centric videos"** on May 25 and May 29, 2021 as a part of **one-week FDP** conducted for school teachers at **Sandur, Karnataka.**
  - ➢ She acted as a **resource person** on May 5 and May 7, 2021 in **one week online FDP** on the theme **"E-content Development"** organized by **MIT Arts, Commerce and Science College, Pune.**
  - ➢ She completed a **45-hour course on "Python"** on April 25, 2021. This self-paced course is conducted by **Guvi, India**.
  - ➢ She obtained the **certificate of completion of "Build a Face Recognition Application using Python"** as part of **AI-For-India Event** on April 25, 2021. This event was registered as **The Guinness World Record Event for an online computer programming lesson in 24 hours.**
  - ➢ She participated in a **5-week online course titled "Introduction to Social Media Marketing"** which was conducted on the **Commonwealth of Learning, Canada platform** in March-April 2021.
  - ➢ She was the **resource person** for the session **on "Present with Panache: Designing visually effective presentations"**. This session was conducted on March 18, 2021 at the **National Institute of Technology, Patna** as a part of **FDP on 'ICT Tools for Teaching, Learning Process & Institutes'**.
  - ➢ Ms. Daisy completed a self-learning course on **"Understanding Open Educational Resources"** offered by **Commonwealth of Learning, Canada** in February 2021.
  - ➢ She **conducted two sessions** on **"Designing Learner-centric MOOCs- Moving from video monologues to learning dialogues"** and **"Designing Learner-centric MOOCs- Creating Learning by doing activities"**. These sessions were conducted as a part of the **Faculty Induction Programme 'Online-Gurudakshta'** held on January 5-6, 2021 at **Panjab University, Chandigarh**.
  - ➢ She participated in an **online Workshop on "Big Data Analytics and applications"** organized by the **Department of Computer Science, Guru Nanak College, Moga** on December 11-12, 2020.
  - ➢ Ms. Wadhwa, completed **AICTE Training And Learning (ATAL) Academy Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)"** from November 23- 27, 2020 held at **Guru Nanak Dev Engineering College, Ludhiana**.
  - ➢ She **co-authored and presented two research papers** in the "**28th International Conference on Computers in Education"** held on November 23, 2020. The research papers titled **"Technological and pedagogical aspects of a communication tool: An immersive learning experience"** and **"Participatory**

Role of Discussion Forum Moderators in Learner-Centric MOOCs" were also **published** as a part of conference proceedings.

- ➢ acted as a workshop **co-instructor for a 4-Week Faculty training workshop on "Online Teaching"** conducted in September- October, 2020 for the faculty members of **Savitribai Phule Pune University, Pune, Maharashtra**.
- ➢ conducted an **online session on "Principles of Designing Visually Effective Presentations"** at **Malaviya National Institute of Technology, Jaipur** as a part of **FDP on "ICT Tools for Teaching, Learning Process & Institutes"** on August 14, 2020.
- ➢ a Resource Person for an expert talk on the topic **"From face-to-face to online teaching and MOOC as an enabler of education"** at **Vasanta College for Women, Varanasi** during **a 5-Day online FDP** on **'Digital Learning & Professional Ethics'** on July 7, 2020.
- ➢ a **co-instructor** for **a four-Week workshop on "Effective Learner Engagement in Discussion Forums"** for training Discussion Forum Moderators (DFMs) of **National Programme on Technology Enhanced Learning (NPTEL) Courses**, conducted in July- August 2020.
- ➢ participated in **one-day online National webinar** on **'IoT: Impacts and Opportunities'** organized by the **Department of Computer Science of Guru Nanak College, Moga** on July 3, 2020.
- ➢ invited as **Resource Person** for an expert talk on the topic **"Designing visually effective presentations"** at **MIT- ADT University, Pune** as a part of **5-Day online FDP** on **'Teaching & Learning Pedagogy'** on June 22, 2020.

- The following are the achievements of **Mrs. Satwant Kaur (Dept. of Computer Science and Applications)** during the session 2020-21:
  - ➢ She completed **two weeks Faculty Development Programme on "Advanced Concepts for Developing MOOCS"** from July 02-17, 2020, organized by **Teaching Learning Centre Ramanujan College, the University of Delhi** sponsored by **Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission On Teachers and Teaching.**
  - ➢ She completed a **4 week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"** from June 04-July 01, 2020 organized by **Teaching Learning Centre Ramanujan College, the University of Delhi** sponsored by the **Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission On Teachers and Teaching.**

- **Dr. Shikha Bajaj (Dept. of Fashion Designing)** attended a **Webinar** on "**Apparel and Fashion World"** at **Department of Textiles and Apparel Designing, Ethelind College of Home Science, Uttar Pradesh** on July 28, 2020.

- **Ms. Harpreet Kaur (Dept. of Computer Science and Applications)** had the below-mentioned personal achievements during the session 2020-21:
  - ➢ She obtained the **certificate of completion of "Build a Face Recognition Application using Python"** as part of **AI-For-India Event** on April 25, 2021. This event was registered as **The Guinness World Record Event for an online computer programming lesson in 24 hours.**

- She **obtained NPTEL Online certification** for successfully completing a **4 week online course on "Designing Learner-Centric MOOCs"** (January- February 2021) conducted **by IIT Bombay** and was funded by the **Ministry of HRD, Govt. of India**.
- participated in an **online Workshop on "Big Data Analytics and applications"** organized by the **Department of Computer Science, Guru Nanak College, Moga** on December 11-12, 2020.
- She **completed "Google Ads Masterclass"** conducted by **Digital Deepak** on August 27, 2020.
- She completed **One Week Online Faculty Development Programme on "Online Class Management Tools and Techniques"** conducted from July 23-29, 2020 organized by the **Department of Economics, Hamidia Girls Degree College, University of Allahabad, Prayagraj, Uttar Pradesh.**

- **Research related activities:**

  a. Research Papers of the members of faculty were published in e-journals (already mentioned):
     - Research paper of **Mrs. Punpreet Kaur (Dept. of Business Management and Commerce)** entitled **"Service Quality in Higher Education: A Literature Review"** was published in an **e-journal "Psychology and Education"** (ISSN No. 00333077), Vol. 58, No. 3 in 2021.
     - **Research Paper of Mrs. Kirti Loomba** (**Dept. of Mass Communication)** entitled "**E-Governance in Punjab: A Study Based on Sewa Kendras of Punjab"** was published in **Shodh Sarita (UGC Care-List Journal), Vol7, Issue 27,** July-September 2020
     - **Ms. Daisy Wadhwa (Dept. of Computer Science and Applications) co-authored and presented two research papers** in the "**28th International Conference on Computers in Education"** held on November 23, 2020. The research papers titled **"Technological and pedagogical aspects of a communication tool: An immersive learning experience"** and **"Participatory Role of Discussion Forum Moderators in Learner-Centric MOOCs"** were also **published** as a part of conference proceedings.

  b. **PG Dept. of English** brought out the **Sixth Volume** of **biannual refereed journal of literary studies** entitled **"Journal of Literary Aesthetics"** with a combined issue (1&2) in **May, 2019**. The journal has an **impressive repertoire** of Associate Editors not only from Universities across **Punjab** but also from **Tamil Nadu, Assam, Gujarat, Rajasthan**, and even **Saudi Arabia.**

- **Co-curricular activities in the virtual mode:**

  a. **International Day of Yoga** was observed and celebrated **online** on June 21, 2020. It is celebrated with a specific theme every year and due to spread of

COVID-19 pandemic the theme of this year is "**Yoga@ Home and Yoga with Family**." Many volunteers took pledge to make Yoga an indispensable part of their life. A few volunteers made posters on importance of Yoga. This year, the International Day of Yoga was observed by everyone at home with their family.

b. On **6th International Yoga Day, the Hon'ble PM of India** had announced **a video blog contest regarding yoga**. Cadet Neha Kaushik posted a video blog regarding yoga asana to **Ayush Ministry Website** on June 21, 2020.

c. An **Online Slogan Writing Competition** was organized to mark the **400th Birth Anniversary of Shri Guru Tegh Bahadur Ji** on July 31, 2020.

d. **Teachers' Day** was celebrated virtually on September 05, 2020.

e. **12 Cadets** submitted articles to **NCC Digital Forum** on topics like **Aatamnirbhar Bharat, Fit India Movement, NCC Yogdan, Skill Development, and Swachh Bharat Abhiyan** on October 28, 2020.

f. **23 Cadets** took pledge on **Central Vigilance Commission Website** on November 19, 2020.

g. To mark **the NCC Day**, a **Tree Plantation Drive** was held in the **virtual mode** from November 25-29, 2020.

h. NCC wing conducted **online activity under Swachhta Pakhwara** on December 14, 2020. Cadets created awareness through **hand wash activity** and also organized an **online Essay writing competition.**

i. **33 Cadets** participated in **24th National Youth Festival** through **LIVE Webcast** on January 12, 2021 on the occasion of **National Youth Day**.

j. **NSS Unit in collaboration with Women's Cell** celebrated **International Women's Day** on March 08, 2021 in **virtual mode**. **Mrs Shikha Kalra (Department of Home Science)** also gave a talk on the theme "**Anemia Advice Nutrition Advice and Importance of Exercise**."

k. On April 5, 2021, NCC wing organized an **online Poster-making competition** on the theme **"Anti drug."**

l. On April 7, 2021, **21 Cadets** participated in "*Pariksha pe Charcha 2021*" organized by **Government of India**. **Honorable PM of India Sh. Narendra Modi** interacted with Cadets through **online mode**.

m. In order to commemorate **Jallianwala Bagh Remembrance Day**, NCC cadets presented a **Nukkad Natak** on the theme "**No to Single Use Plastic"** through online mode on April 13, 2021. A **Webinar** was also conducted on the same theme in which Cadet Neha Kaushik and Cadet Anjani made a joint **Power Point Presentation**.

- **Refer links for verification**

1. ICT Tools - https://www.gnwldh.com/ict-enabled-tools-for-effective-teaching-learning-process/

2. NCC Report 2020-21- https://www.gnwldh.com/wp-content/uploads/2023/08/NCC-REPORT-OF-2020-2021.pdf