<u>Proposal for announcing seat under the Institute Internship Program</u>
(separate form to be filled for seat under Institute funding and project funding)

1. **Name of faculty member proposing:** Dr. Namita Mittal
2. **Department/Centre:** Department of Computer Science and Engineering
3. **Topic on which work is proposed:** Conversational AI using Generative AI
4. **Preferred period of internship (after May 20th):** Between 20 May 2024 to 30 June 2024
5. **Qualification of student (branch/semester of study):** B.Tech (CSE/AIDE) – Fourth/ Sixth/ eighth semester

6. **Brief description of work (300-500 words):**

   The project aims to create a conversational AI system capable of providing efficient and personalized support, leveraging natural language processing (NLP) and deep learning techniques. The conversational AI will understand and respond to user inquiries, troubleshoot issues, and escalate complex queries as necessary by understanding the content provided to the system.

7. **Expected learning of student (upto 100 words):**
   - Knowledge and hands-on experience in deep learning techniques, particularly in the context of NLP/ LLM
   - Learn about techniques like attention mechanisms networks to effectively combine information for improved understanding.
   - Learn about techniques for text preprocessing, semantic analysis, and intent recognition to accurately interpret user questions.
   - Gain practical experience in project management methodologies and teamwork.

8. **Nature of work: (Experimental/simulation/mathematical modelling/data collection-analysis etc.): upto 50 words**

   The project entails developing a deep learning based conversational AI model that involves theoretical modelling, experimental implementation, dataset collection, model training, and evaluation. Emphasis is on optimizing performance and updating the knowledge base for accurate and up-to-date responses.

9. If the seat is under project sponsored category: No (one intern)
   a) If yes, number of seats announced:
   b) Name and ID no. of project from which stipend is chargeable - NA

   Dr. Namita Mittal
   Department of CSE

Note:
   a) Proposing faculty member needs to be available at the Institute during the period internship is offered
   b) No extra space or funding than the stipend will be provided by the institute for this purpose.