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Seminar Report on “AI on Wheels (and Wings): Robotics and the Safety of Autonomous Systems”

A seminar on “*AI on Wheels (and Wings): Robotics and the Safety of Autonomous Systems*” was conducted on **Thursday, 9th October 2025**. The session was organized for **BCA and B.Tech (CSE)** students of **2026 and 2027 batches** (Final and Pre-Final Year). The resource person for the seminar was **Dr. Ian Gray** (*Senior Lecturer (Computer Science), University of York, United Kingdom*). The session was coordinated by **Dr. Sufia Rahman (CCG&D)**.

Dr. Ian Gray began the session by explaining how we can judge if an AI system functions properly through its performance, data accuracy, and decision-making efficiency. He emphasized that AI systems must compute results accurately and within defined time frames, which is particularly critical in airplanes and automotive systems.

He pointed out that AI, though advancing rapidly, is still not entirely safe as it cannot yet make fully informed decisions. Dr. Gray discussed the historical development of cars and the evolution of safety standards, citing how backlights were once manually controlled but are now automated with advanced sensors and AI.

He then referred to several research papers discussing the use of AI and the ethical challenges that accompany its applications. He elaborated on cases where AI-driven systems like **Tesla’s autonomous driving technology** faced safety issues and noted that companies such as **Mercedes** are still refining their AI systems to achieve greater reliability. He also mentioned past incidents, such as Toyota’s 2009 system malfunction and instances like Stack Overflow errors in AI systems.

Dr. Gray also spoke about his university’s ongoing research in the field of AI safety and the importance of ethics in AI-driven technologies. He concluded that while AI is not completely safe today, there is strong potential for safer and more reliable systems in the near future. The seminar ended with an interactive Q&A session where students clarified their doubts.

Overall, the seminar was highly informative and gave students valuable insights into the current challenges and future scope of artificial intelligence in robotics and autonomous systems.

Glimpses of the Seminar –



Dr. Ian Gray (Senior Lecturer (Computer Science), University of York, United Kingdom) making the presentation



Memento presentation to Dr. Ian Gray and his Team by CCG&D
