**INSTITUTE OF EDUCATION**

COURSE OUTLINE IN \_STS 121\_: \_Science, Technology and Society\_

Learning Activities Plan:

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| **Course Content** | **Timetable (in hrs)** |
| Orientation and Introduction to the Course | 1.5 |
| Science and Technology in History that changed Societya. Stone Ageb. Bronze Age  c. Iron Age  d. Middle Ages e. Pre-colonial societies in selected Asian countries especially in the Philippines | 6 |
| Scientific and Technological revolutions that defined Societya. Renaissance b. Scientific Revolutionc. Industrial Revolution d. Western Imperialism | 6 |
| Science and Technology in the 20th Century with an emphasis in the Philippines contexta. Microelectronics and Photonicsb. Computers and Information Technologyc. Internet and Other Advanced Telecommunication Technologiesd. Automation, Robotics, and Other Advanced Manufacturing Technologiese. Advanced Energy Technologiesf. Advanced Materials, Micromachines, and Nanotechnologyg. Genetic Engineering and Biotechnologyh. Advances in Health and Medicinesi. Food and Agricultural Technologiesj. Advances in Construction, Transportation, and Space Technologies | 12 |
| Midterm Examinations | 3 |
| Impacts of Science and Technology in Society and its Cultureλa. Economic b. Businessc. Environment with a focus on climate changed. Arts e. War f. Ethics g. Ideology with a focus on environmental awarenessh. Politics | 12 |
| Case Studies of Science & Technology Policies for National Developmenta. Developed Countries b. Newly Industrialized Countriesc. Least Developed Countries especially the Philippines | 7.5 |
| Science and Technology in the Philippines: Present Conditions and Future Options | 3 |
| Final Examinations | 3 |