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Development of e-Learning Content: Introduction to Space Radio Engineering

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In this research, we developed an e-Learning segment titled Introduction to Space Radio Engineering for the e-Learning Creativity Education Course, which utilizes teaching materials such as the Jupiter radio receiver (Radio JOVE kit) developed by NASA's educational project (Radio JOVE) and the Internet Solar Radio Observatory (ISRO).

The framework of the course has been set up so that students can learn systematically the basics of radio to the observation of it. The contents include not only text, but also assembly of the Radio JOVE kit and observations with it which are incorporated into the content as Hi-Vision video clips. Therefore, students can virtually experience the research of a radio astronomer, and can improve their creativity through this course.