



Spring 2022 Antenna Final Project

Project

5月	第11周 春季学期	25 廿五	26 廿六	27 廿七	28 廿八	29 廿九	30 三十	1 劳动节
	第12周 春季学期	2 初二	3 初三	4 青年节	5 立夏	6 初六	7 初七	8 母亲节
	第13周 春季学期	9 初九	10 初十	11 十一	12 护士节	13 十三	14 十四	15 十五
	第14周 春季学期	16 十六	17 十七	18 十八	19 十九	20 二十	21 小满	22 廿二
	第15周 春季学期	23 廿三	24 廿四	25 廿五	26 廿六	27 廿七	28 廿八	29 廿九
	第16周 春季学期	30 初一	31 无烟日	1 儿童节	2 初四	3 端午节	4 初六	5 环境日

周次	Lecture	Labs
11	DRA	DRA array
12	Happy Holidays	Project Assignment
13	Emerging Antenna Technologies	Antenna Meas. Progress Pre. (5-10 min)
14	Wave Propagation	Antenna Meas. Progress Pre. (5-10 min)
15	Final Pre.	Final Pre. (15 min)
16	Review and QA	Happy Holiday

Project Topics



- 8 projects posted on line by **May 6 (Friday)** for you to choose from
- Topics relate to antenna design
- Involve at least one microwave simulation tool or one mathematical modeling tool such as CST, HFSS, ADS or matlab
- May require analyze and reproduce an antenna structure results from a recent publication in IEEE xplorer
<http://ieeexplore.ieee.org/>, TAP or AWPL
- May require improvement of the design

Project Presentations

- Progress presentation
 - once for each student during Week 13-14
 - 5-10 minutes for each group
 - Include development update and answers to the feedback
 - *[Use the provided PPT template.](#)

Project Presentations

- Final presentation
 - Total of 15 minutes for each group.
 - 10 minutes of presentation
 - 5 minutes of Q&A
 - **Week 15**
 - *[Use the provided PPT template.](#)

Final Project Submission Package

1. A project report using the provided (.docx template)
 - describe what you have done and your results.
 2. Project presentation PPT
 3. Modeling Tutorial (算例)
 - HFSS files
 - [PPT](#)
 - [Word document](#)
 - Modeling Tutorial Video 3-5 min
- Due: **June 3 (Week 16)**

Why Project?

Existing Research on **Project-Based Learning**

The research consistently showed that students taught through **PBL** displayed: enhanced student performance. increased student motivation and engagement. improved teacher/student interaction.

www.definedstem.com › [blog](#) › [project-based-learning-research](#) ▼

[Study Confirms Project-Based Learning Has a Positive Impact ...](#)



Why Project?

- Project based learning (learn-by-doing)
- Learn through Feedback
- Collaboration skill
- Self-learning skill
- Data collecting skill
- Analytical skill
- Research skills
- ...

