

Bio Teaching Courses

1. Up-to-date teaching materials

- Use recent research articles as a supplement to main teaching materials.
- Always update data and trends on Power Point slides.
- Teach microbiology class by explaining about "Virus & Covid-19 pandemic".

2. Use case studies

- Use case studies to illustrate real life examples of the teaching topics
- Use case studies in every class.

3. Problem -based learning

- Use problem based calculation questions.
- Use term projects to let students design their own products and processes.

Outcomes:

- Using research articles in class open up to class discussion. Students participate in class and give a lot of input.
- Updated slides attract students. Students have the urge to learn.
- Students understand about "the pandemic situation" and "virus types."
- Students learn from real problems that actually occur in actual situation.
- Case studies lead to more discussion.
- Questions lead to more discussion.
- Term projects help students to gain ideas and develop solution seeking skills.

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4. Laboratory session

- Provide laboratory session according to the lecture topics.

5. Extra Activities

Guest Speakers/
Company visit

- Invite guest speakers to share their research and experience to students.
- Arrange field trips -- visiting food-biotech companies/ processing plants.

6. Use Information technology

- Use teaching aids such as VDO and computer programs.
- Use websites for more exploration and quiz activity in class.

Outcomes:

- Students develop practical skills.
- Students have better understanding on the studied topics in lectures.
- Students are interested in speaker's topics and have further discussion with speakers.
- Students have experience on real food production process and industrial plant operation.
- "Statistical programs" are used in class, students get a good hand-on experience-- having a better understanding of the subject.
- "Mentimeter.com" attracts students--having more fun in class.
- Students attend class more easily from "MS teams". Students can watch recorded VDO for their own review.

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