FAMU-FSU College of Engineering

AGENDA

Faculty AI in Curriculum Workshop

Tuesday, December 8, 2026 | 8:00 AM – 5:00 PM | IRCB, 1030

Register and choose your sessions at Faculty AI in Curriculum Workshop.

8:00 AM	**Breakfast**	
SESSION 1	**College & Department Leadership**	**8:30 – 9:30 AM**
8:30 AM	**Welcome** Suvranu De, Sc.D., Dean, FAMU-FSU College of Engineering	
8:45 AM	**Department Chair Remarks: Preparing to Embed AI in Teaching** Drs. Petru Andrei (ECE), Rajan Kumar (MAE), Bruce Locke (CBE), Lisa Spainhour (CEE), and Changchun Zeng (IME) Tarik Dickens (MSE)	
SESSION 2	**General Tutorial – FSU ITS**	**9:30 – 12:30 PM**
9:30 AM	**AI in Teaching and Learning: Guidelines, Tools, and Practical Applications** Bobby Sprinkle, Deputy Chief Information Officer, FSU Robert J. Fuselier, Chief Academic Technology Officer, FSU	
11:15 AM	**Break** ***(15 minutes)***	
11:30 AM	**Session Resume**	
12:30 PM	**Lunch**	
SESSION 3	**Experience Sharing: AI in Engineering Teaching**	**1:00 PM – 5:00 PM**
1:00 PM	**Enhancing Student Learning with Gemini Notebook and Gems (Skills):** A Socratic AI Tutor for Engineering Courses Dr. Ravikumar Gelli, Associate Professor, Electrical & Computer Engineering	
1:30 PM	**The Feynman-AI Study Method: Using GenAI to Strengthen Conceptual Understanding** Dr. Ernesto Garcia, Teaching Faculty II, Industrial & Manufacturing Engineering	
2:00 PM	**Using Gemini Notebook as an Assistant for Engineering Courses** Dr. Ralm Ricarte, Assistant Professor, Chemical & Biomedical Engineering	
2:30 PM	**Building a Shared "Team AI Advisor" (Gemini Gem) for Senior Design** Dr. Robert Wandell, Teaching Faculty II, Chemical & Biomedical Engineering	
3:00 PM	**AI-Guided Finite Element Analysis** Dr. Rebekah Downes, Associate Professor, Industrial & Manufacturing Engineering	
3:30 PM	**Using Custom AI Assistants in Teaching** Dr. Kamal Tawfiq, Professor, Civil & Environmental Engineering	
4:00 PM	**Designing Class Activities and Assessments in the Age of AI** Dr. Neetesh Sharma, Assistant Professor, Civil & Environmental Engineering	
4:30 PM	**AI-Guided Computer Graphics** Dr. Hui Wang, Professor, Industrial & Manufacturing Engineering AI Task Force Committee Member	
5:00 PM	**Conclusion & Adjourn** Dr. Hui Wang, Professor, Industrial & Manufacturing Engineering AI Task Force Committee Member	

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Presenter & Presentation Title List

Tuesday, December 8, 2026 | IRCB, 1030

Session 2. General Tutorial | 9:30 – 11:30 AM

Presenter	Presentation Title	Dept.	Time
Bobby Sprinkle and Robert J. Fuselier	**AI Use Guidelines, Policies, and Resources** An overview of the faculty and student guidelines from the ai.fsu.edu website. These include AI Fluency, Data Protection & Privacy, Academic Integrity, Access to Tools & Applications, and use in Teaching & Learning. We could also plan to discuss the new syllabus disclosure requirements per the FLBOG. **Introduction to Gemini Notebook & Gems/Skills** A hands-on introduction to the Google Gemini tools, include the chat, Notebook and Gems/Skills *(Note: Gems is currently being phased out and replaced by Skills)*. This includes an overview of the AI Spark project and some examples that may help the faculty brainstorm ideas for their own AI-based learning activities. **Introduction to ArtesAI** A walk-through of the features and uses for the ArtesAI platform with opportunities for hands-on experimentation. **Wrap-Up and Q&A**	FSU ITS	**9:30 AM** **10:15 AM** **11:30 AM** **12:15 PM**

Session 3. Experience Sharing: AI in Engineering Teaching | 11:30 AM – 5:00 PM

Presenter	Presentation Title	Dept.	Time
Dr. Ravikumar Gelli	**Enhancing Student Learning with Gemini Notebook and Gems (Skills): A Socratic AI Tutor for Engineering Courses** This presentation shares my experience developing a Socratic AI tutor using Gemini Gems during the AI Sparks program and deploying it in my EEL 4930/5930 course, Generative AI Systems: Foundations and Industry Applications. I will demonstrate how Gemini Gems and Gemini Notebook can support personalized learning, guided questioning, and independent problem-solving. I will also share student feedback, discuss lessons learned from classroom implementation, and outline planned enhancements using Gemini Skills to further improve the learning experience in the next semester.	ECE	**1:00 PM**
Dr. Ernesto Garcia	**The Feynman-AI Study Method: Using GenAI to Strengthen Conceptual Understanding** A GenAI adaptation of the Feynman Technique being explored across a sample of IME courses. The method follows four iterative stages: auditing prior knowledge, explaining a concept from current understanding, diagnosing and resolving gaps, and simplifying and reconstructing explanations. Preliminary evidence shows how GenAI can serve as a knowledge auditor, Socratic guide, and critical reviewer while preserving the learner's responsibility for reasoning, verification, and independent explanation.	IME	**1:30 PM**
Dr. Ralm Ricarte	**Using Gemini Notebook as an Assistant for Engineering Courses** Brief workshop on building a Gemini Notebook for your engineering course.	CBE	**2:00 PM**
Dr. Robert Wandell	**Building a Shared "Team AI Advisor" (Gemini Gem) for Senior Design and Project Courses That Supports Student Judgment Instead of Replacing It** How Fall 2026 ChE capstone teams each received a shared Gemini for Education Gem loaded with a common instruction block, program handbook, and team project file, and what testing revealed: why advisor starter documents need a cover note framing them as hypotheses rather than specifications, and how to have the model return unranked options with trade-offs. Includes a hands-on demo of configuring a Gem for your own course, from writing the instruction block to running an adversarial prompt set that checks whether the Gem respects student ownership.	CBE	**2:30 PM**
Dr. Rebekah Downes	**AI-Guided Finite Element Analysis** Experience using AI to generate code that runs Abaqus simulations, and the related student assignments.	IME	**3:00 PM**
Dr. Kamal Tawfiq	**Using Custom AI Assistants in Teaching** An overview of how customizable AI tools like Gemini Gems can support course delivery and student engagement, illustrated with a case study from classroom practice.	CEE	**3:30 PM**

Dr. Neetesh Sharma	**Designing Class Activities and Assessments for Learning in the Age of AI** How class activities and different types of assessment can be structured to support meaningful learning and long-term retention.	CEE	**4:00 PM**
Dr. Hui Wang	**AI-Guided Computer Graphics** Using AI to guide SolidWorks macro functions that automatically generate 3D models, and the related student assignments.	IME	**4:30 PM**
Conclusion & Adjourn			**5:00 PM**

Presentation Format:
Each Presenter will have 30 minutes total: 20 minutes for presentation/remarks + 10 minutes for Q&A.

Participant Information

Tuesday, December 8, 2026 | IRCB, 1030

Location

• IRCB, 1030

Registration, Presentation Format & What to Bring

• Register and select sessions at: Faculty AI in Curriculum Workshop
• Each Presenter will have 30 minutes total: 20 minutes for presentation/remarks + 10 minutes for Q&A.
• Please bring your laptop with wireless WI-FI connection; you will set up your Google account and FSU Virtual Lab environment during the workshop.

Food

• Light breakfast and lunch provided. Please provide dietary preferences via the registration link.
• Light refreshments will be provided throughout the day.

AI TASK FORCE COMMITTEE	
Dr. Hui Wang	Industrial & Manufacturing Engineering
Dr. Ravikumar Gelli	Electrical & Computer Engineering
Dr. Neetesh Sharma	Civil & Environmental Engineering
Dr. Scott Thourson	Chemical & Biomedical Engineering
Dr. Mehrdad Kiani	Materials Science & Engineering