



Tech Starters 2022 - 2023 Club Syllabus: Fall + Spring Semester

Club Sponsor: Ms. Keller

[Constitution](#)

Club Meeting Times: Wednesdays 4:30pm–5:30pm (in F-1112 or F-1104 when we use computers)

Officers:

President: Priyadarsi Mishra (santoshpriyadarsi@gmail.com)

Vice-President: Sneha Nangunoori (sneha.nangunoori@gmail.com)

Secretary: Ravi Shah (ravidhruvishshah@gmail.com)

Student Council Representative: Justin Lopato (justin@lopato.org)

Webmaster: Drishya Koirala (drishyakoirala@gmail.com)

Parliamentarian: Romir Jain (romir.jain@gmail.com)

Treasurer: Mehek Patro (patromehek@gmail.com)

[ALL MEETING SLIDES](#)

The Year at a Glance: Welcome to Tech Starters! We at Tech Starters are so excited to introduce you to the real world of technology and design! Here is a list of the topics, software, and concepts that will be explored in this semester of the club:

- ❖ [September](#): Brainstorming + Project Planning
- ❖ [October–November](#): Introduction of Skills + Starting the Project + Market Research for product

- Materials (depending on your team project): Github, Terminal/Command Line, React, Unity, Tensorflow, Firebase, Visual Studio Code, Figma, Inventor, Multisim, etc.
- ❖ **November-December:** Designing Prototype + Building Software for Product + Building Business Plan and starting pitch + Semester Showcase
 - Materials: Github, Terminal/Command Line, React, Unity, Tensorflow, Firebase, Visual Studio Code
- ❖ **January-April:** Usability Testing/Prototyping + Implementing features for product + Finishing the Business Pitch/5-pager slides
 - Materials: React, Figma, Visual Studio Code, Inventor, Multisim, Recorder
- ❖ **May:** Finalizing Presentation + Marketing + Demo Day
 - Materials: React, Canva, Visual Studio Code, Inventor, Multisim

Note: This document will change throughout the year, and new links and resources will be posted to help with your projects. Also, this is a good way to keep track of your progress and what “deadlines” you should be meeting.

Detailed Semester “Lesson” Plan

Meeting Date	Lesson Plan	Materials/Guest Speakers
August 31st, 2022	❖ First Day Information + icebreakers	
September 7th, 2022	❖ Second Day Brainstorming and finalizing group positions	
September 14th, 2022	❖ Project Outline Intro ❖ Creating Discord Account + Joining the Tech Starters Server!	❖ Discord
September 21st, 2022	MEETING CANCELED DUE TO SAFETY CONCERNS ❖ Continuing working on the project proposal ❖ Team Members doc	❖ Discord ❖ Project Proposal
September 28th, 2022	❖ Everyone ➤ Learn React & MUI or Chakra UI framework	❖ React/Node.js

	■ Get coders setup with Node.js + React Team Leader Application!	
October 5th, 2022	❖ Finish Up Product Proposals! Deadline is approaching ❖ Engineers ➢ Learn Software required for your project - i.e for web apps learn React & Material UI framework ■ Get coders setup with Node.js + React ➢ Learn Inventor ■ Download Instructions for at Home Computers ❖ Designers ➢ Learning Figma ■ Teach Figma + Material IO ❖ Business ➢ Scope Product + Market Research (Target Market, Competitors, etc.)-- Intro to Project Proposal Team Leader Announcements/Voting!	❖ Node.js ❖ Github/Command Line (Terminal) ❖ React ❖ Unity ❖ Tensorflow, Keras ❖ Material UI framework ❖ Chakra UI framework ❖ Material IO ❖ Figma ❖ Onshape <u>Proposal should be completed by October 26th</u>
October 12th, 2022	NO MEETING DUE TO PSAT	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape Continue working on Project Proposal.
October 19th, 2022	❖ Mentor Day! - UT CS student - Tria Dues Deadline!	Tria's Information: Gmail: triambika.d@gmail.com Linkedin: https://www.linkedin.com/in/triambika-dinakaran/ Presentation Slides Link
October 26th,	❖ Engineers	❖ React

2022	➤ Coding ➤ Product Design ❖ Designers ➤ Working on designs ❖ Business ➤ Product Proposal Product Proposal Due!	❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape ❖ Material UI framework ❖ Material IO ❖ Figma
November 2nd, 2022	❖ Engineers ➤ Coding ➤ Product Design ❖ Designers ➤ Working on designs (due by Semester Showcase) ❖ Business ➤ Semester Showcase ❖ Everyone: Make Team-Specific Timeline (Due: November 30th)	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape ❖ Google Docs <u>5 pager pitch due on November 10th</u>
November 9th, 2022	❖ Engineers ➤ Coding ➤ Product Design ❖ Designers ➤ Working on designs ❖ Business	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape
November 16th, 2022	❖ Engineers ➤ Coding ➤ Product Design ❖ Designers ➤ Working on designs (due by Semester Showcase) ❖ Business ➤ Work on Interim Showcase presentation ➤ Presentation Rubric	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape
November 30th, 2022	❖ Mentor Day (Danielle Manibusan + Anh Nyguen + Fatma Ikibas)! Team-Specific Timeline Due!	Presentation Slides Link (Slide 14 has mentor information)
December 7th, 2022	Semester Showcase ❖ Presentation to peers and club officers for feedback	❖ Materials to Present: ➤ Proposal ➤ Pitch Presentation

		➤ Designs
January 11th, 2023	❖ Everyone: Regroup and talk about progress and update your Timeline accordingly ❖ Engineers: ➤ Coding ➤ Helping Designers ❖ Designers: ➤ Work with engineers to explain designs and make any changes based on UX ❖ Marketers: ➤ Should be helping Designers or Engineers	❖ Google Docs
January 18th, 2023	❖ Engineers: ➤ Coding ➤ Coordinating with Designers ❖ Designers: ➤ Work with engineers to explain designs and make any changes based on UX ❖ Marketers: ➤ Should be helping Designers or Engineers	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape
January 25th, 2023	❖ Engineers: ➤ App Coding ❖ Designers: ➤ Work with engineers to explain designs and make any changes based on UX ❖ Marketers: ➤ Should be helping Designers of Engineers	
February 1st, 2023	❖ Engineers: ➤ Coding ❖ Designers: ➤ Work with engineers to explain designs and make any changes based on UX ❖ Marketers: Should be helping Designers of Engineers	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape
February 10th, 2023	❖ Mentor Day - Rakshinee Sreekanth!	❖ Presentation

February 15th, 2023	❖ Engineers ➢ Coding ❖ Designers ➢ Product Testing ❖ Business ➢ Product Testing Officer Application Form Due February 24nd at 4:20 PM	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape
February 22nd, 2023	❖ Engineers ➢ App Coding (At least ½ way done) ❖ Designers: Done with Figma/CAD Designs ❖ Business ➢ Product Testing Intro	❖ React ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Onshape
March 1st, 2023	NO MEETING DUE TO SAT	❖ Node.js ❖ React ❖ Material UI framework ❖ Chakra UI framework ❖ Tensorflow, Keras ❖ Material IO ❖ Figma ❖ Onshape Continue working on Project Proposal.
March 8th, 2023	❖ Engineers ➢ Coding ❖ Designers ➢ Product Testing ❖ Business ➢ Product Testing Marketers and Designers: Product Testing Plans Due! Officer Voting (MANDATORY) Closes on March 24th at 11:59PM!	❖ React ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Onshape
March 22th, 2023	❖ Engineers ➢ Coding/Design ❖ Designers ➢ Work on Final Presentation ❖ Business ➢ Work on Final Presentation, Market Research	❖ React ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Tips of Presenting ❖ Onshape

March 29th, 2023	❖ Engineers ➢ Coding/Design ❖ Designers ➢ Work on Final Presentation ❖ Business ➢ Work on Final Presentation, Market Research	❖ React ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Tips of Presenting ❖ Onshape
April 5th, 2023	❖ Engineers ➢ Full product development "due"! ➢ Coding/Design ❖ Designers ➢ Work on Final Presentation ❖ Business ➢ Work on Final Presentation, Market Research	
April 12th, 2023	❖ Engineers ➢ Finish any last minute bugs or features ❖ Designers ➢ Work on Final Presentation ❖ Business ➢ Work on Final Presentation, add Market Research	❖ React/React Native ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Tips of Presenting ❖ Onshape
April 19th, 2023	❖ Engineers ➢ Finish any last minute bugs or features ❖ Designers ➢ Work on Final Presentation ❖ Business ➢ Work on Final Presentation, add Market Research	❖ React/React Native ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Tips of Presenting ❖ Onshape
April 26th, 2023	❖ Engineers ➢ Finish working on Final Presentation ❖ Designers ➢ Finish working on Final Presentation ❖ Business ➢ Finish working on Final Presentation	❖ React/React Native ❖ Material UI framework ❖ Material IO ❖ Figma ❖ Tips of Presenting ❖ Onshape
May 3rd, 2023	❖ Mock Rehearsal!	❖ Final Presentation ➢ Canva ➢ SlidesGo ➢ Slides Carnival
May 17th, 2023 @	Demo Day!	❖ Your group's completed

4:30-6:30pm (Tentative)	Judges: Computer Science, Business, Robotics, and Design Mentors (Industry Professionals and Westwood High School Teachers)	product and presentation
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