



Notice/Circular

Date: 02/02/2021

FlyWeight PBPC (Product Building With Python Course)

All the eligible, interested and willing to prepare for the requirement of the event in all respects are informed to register with HIT's Training & Placement Cell on or before **03/02/2021, 5.00 pm.** without fail. Refer the following details of the event.

Eligible Branch/Class	BE (CSE, ECE, EEE) 2022 & 2023 Batch (BE 2nd Year & 3rd Year) Students										
Course/event name & Nature:	FlyWeight PBPC (Product Building With Python Course)										
Training Fee :	Free Training Program										
Short summary of the program	FlyWeight PBPC (Product Building With Python Course) is aimed at stimulating real world product building skills and capacities in undergraduate students. For selected undergraduate students, FlyWeight offers permanent mentorship and leadership opportunities on exciting R&D work throughout their education. The program is offered absolutely free of monetary charges, but expects 2hrs 30mins of attendee everyday for 1.5 to 3 months.										
Apply Link:	https://forms.gle/zjQQhdSt6EuXCn6m6										
Course Duration:	2hrs 30mins of attendee everyday for 1.5 to 3 months. Timing - Every day, 6 AM - 8 AM										
Contact Information:	<table border="1"> <thead> <tr> <th>Name</th><th>Bio</th></tr> </thead> <tbody> <tr> <td>Shrijith</td><td>Software Engineering researcher at University of California, Irvine as a Masters degree pursuant In the past, I've been: Technical lead at K12 techno services DevOps Engineer at Endurance International/Directi</td></tr> <tr> <td>Shreehari</td><td>Software Engineer* @YouGov Research Ltd. Senior Software Engineer @K12 Techno Services (Ed tech startup) Software Development Analyst @Dell EMC</td></tr> <tr> <td>Varun</td><td>Associate at TheMathCompany In the past, I've been: Application developer at Oracle</td></tr> <tr> <td>Ravikiran</td><td>SDE @ ZopSmart Technologies Bangalore (e grocery platform)</td></tr> </tbody> </table>	Name	Bio	Shrijith	Software Engineering researcher at University of California, Irvine as a Masters degree pursuant In the past, I've been: Technical lead at K12 techno services DevOps Engineer at Endurance International/Directi	Shreehari	Software Engineer* @YouGov Research Ltd. Senior Software Engineer @K12 Techno Services (Ed tech startup) Software Development Analyst @Dell EMC	Varun	Associate at TheMathCompany In the past, I've been: Application developer at Oracle	Ravikiran	SDE @ ZopSmart Technologies Bangalore (e grocery platform)
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Shreehari	Software Engineer* @YouGov Research Ltd. Senior Software Engineer @K12 Techno Services (Ed tech startup) Software Development Analyst @Dell EMC										
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Syllabus & Contact enclosed in this document:	https://docs.google.com/document/d/1EA26MJR_U3EI-eyfHESE8_LzQoWtvVNbzMNj4309YiU/edit?usp=sharing										

**Slightly longer summary of the program**

The course consists of the following components:

1. 1.5 months of focused & intense mini course on **Python** programming, **HTML**, **CSS**, and **Javascript** Programming. Moreover, we will introduce students to the **Django** framework. FlyWeight mentors will actively guide and help students in the learning process.
 2. We will select **upto 12 people** for the next round based on judgements on enthusiasm, progress, etc.
 3. For the next 1.5 months, the selected students will be formed into **groups of 3** and each group will be **paired up with a FlyWeight mentor**. Each mentor will share a real world product plan & action plan to achieve this with the group. In the given period each group will iteratively build the aforementioned product, giving the students real world experience in product building activities.
- All the students in the second round can continue working with the FlyWeight group, building products or researching if they wish to do so. Each of these students will be given a permanent mentorship and we want to build future leadership for FlyWeight with interested students.

Detailed Mini Course Material

Python Programming and Django.

- o **Goal:** Being able to write django backends for web applications, including database handling using django models, writing apis, creating templates.

Python [docs] - [book]

Functions and Variables- Exercise 18-21 **[book]**

Conditions and Looping - Exercises 29-33 **[book]**

Using various data structures and understanding their properties [Tuple, List, Dict, Set] -

https://python.swaroopch.com/data_structures.html

String manipulations - [String Manipulation in Python](#) , Cheat sheet: [Python Strings Cheat Sheet](#)

Python classes (oops) - Exercise 40 **[book]**

ing jupyter notebook python interpreter - <https://jupyter.org/>

Django -

<https://docs.djangoproject.com/en/3.1/intro/tutorial01/>

Urls, Views, Django basic templating. - [URL dispatcher](#), [Writing views](#), [Templates](#)

Models - [Models Querying](#), [Searching](#), [Sorting](#). - [Making queries](#), [Search](#), [QuerySet API reference](#)

Serializing and deserializing -

- **HTML/CSS Goal:** Given a mockup or a wireframe, students should be able to come up with the HTML + CSS structure for the same

HTML - Learn to structure of the page, along with main tags as below, [Introduction to HTML](#), [HTML Basic Examples](#), [HTML Attributes](#), [HTML Headings](#), [HTML Images](#), [HTML Forms](#)

- o Exercise: Search for the web page you like the most. View the source and discover new tags from the page
- o Using CSS with HTML - Should be able to style the elements using CSS, [HTML Styles CSS](#), [HTML - The id attribute](#), [HTML Classes - The Class Attribute](#), [HTML Layout Elements and Techniques](#), [HTML Responsive Web Design](#)
- o Style Guide - Gives guidelines to be followed for writing consistent, clean and tidy HTML code, [HTML Styles CSS](#)

Mini course timeline**Part 1: Learning the basics (1.5 months)**

During the first 1.5 months, while learning the basics of web application building, students are expected to work on 6 nano projects distributed over 6 weeks. A "polling" web application achieved through 6 incremental nano projects

- **Mockups of the target app can be found [here](#)**

- **Weekly goal summary:**

- o **Week 1:** Get a conversion of mockup into html + css
- o **Week 2:** Functions and loop related project.
- o **Week 3:** Prepare a csv/json of polls data - do analysis on the data - top voted question, top voted questions tagged with <something>, get list of questions that have <keyword> etc
- o **Week 4:** Django tutorial sample application working, with tags in backend (2-3 days). Get API 1 working end-to-end with jQuery + django backend with JSON as the exchange format. (3-4 days)
- o **Week 5:** Go deeper into jQuery + backend, more APIs
- o **Week 6:** Finish off APIs & final touches, push to github, create website (if possible)

Part 2: Advanced product building for the selected (1.5 months)

During the second 1.5 months, selected individuals will be put in Flyweight teams and work with mentors closely to build software products.

Project Summary List

- **Being in the zone:** Track users' mental state while an individual is completely immersed in a certain activity. Reports on the individual and groups' over all mental states. Push the teams to use the time in a more effective manner
- **BeatP** : being able to track user's goals, tasks activity and beat procrastination
- **Keymetrica:** Track user keystrokes while setting ambitious writing goals. Detailed reports for analysing recorded data, and reminders to stay on track for achieving writing goals
- o **Javascript + jQuery**
- Goal: Given a static page & backend API, be able to develop page interaction, data fetching & page modification. More context at [JavaScript Introduction](#), What specific things should the student be able to do in Javascript & jQuery? Use CSS selectors to pick parts of the page - [Examples of jQuery Selectors](#), [CSS Diner - Where we feast on CSS Selectors!](#)
- Handle UI events such as clicks, hover, scrolls in JS- [JavaScript Events](#), Make AJAX calls to the server side- [jQuery AJAX Introduction](#), Modify content/views on the page- [jQuery Get Content and Attributes](#)

Using the terminal- Refer to the appendix in [Learn Python The Hard Way](#) 3

Fly Weight PBPC (Product Building With Python Course) Free Training

Sl.No	Name of the Student	USN	Branch
1	Abhishek Patil	2HN17CS001	Computer Science & Engineering
2	AKSHATA PATIL	2HN17CS002	Computer Science & Engineering
3	Ambika Ashok Uppaladinni	2hn17cs003	Computer Science & Engineering
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5	Arun Hundaragi	2HN17CS005	Computer Science & Engineering
6	Aruna Anil Gadakari	2HN17CS006	Computer Science & Engineering
7	Chaitra Parunavar	2HN17CS008	Computer Science & Engineering
8	CHAITRA SHENDE	2HN17CS009	Computer Science & Engineering
9	Chandrashekhar Janti	2HN17CS010	Computer Science & Engineering
10	DEEPA NAIK	2HN17CS012	Computer Science & Engineering
11	Keerti Ichalakaranji	2HN17CS013	Computer Science & Engineering
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14	Namrata Karme	2HN17CS016	Computer Science & Engineering
15	Priyanka A Malabasari	2HN17CS018	Computer Science & Engineering
16	Rahat Mulla	2HN17CS019	Computer Science & Engineering
17	Revati Ramagouda Patil	2HN17CS020	Computer Science & Engineering
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19	SANYUKTA SURESH PATIL	2HN17CS023	Computer Science & Engineering
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22	Shrinath Padalale	2HN17CS028	Computer Science & Engineering
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29	Vidyashri Janagoud	2hn17cs036	Computer Science & Engineering
30	Vinaya Hanji	2HN17CS037	Computer Science & Engineering
31	VINAYAK S MADIWAL	2HN17CS039	Computer Science & Engineering
32	YASH ANANT HUKKERI	2HN17CS041	Computer Science & Engineering
33	Sourabh Nagare	2HN18CS400	Computer Science & Engineering
34	SAHANA BASAVARAJ GUDASI	2HN16EC029	Electronics & Communication Engineering
35	Abhishek S Malgondkar	2HN17EC001	Electronics & Communication Engineering
36	Adarsh Madihalli	2HN17EC002	Electronics & Communication Engineering
37	Aishwarya Nanasaheb Patil	2hn17ec003	Electronics & Communication Engineering
38	AKSHATA CHANABASAPPA SHIVANNAVAR	2HN17EC004	Electronics & Communication Engineering
39	Amogh Daddi	2HN17EC005	Electronics & Communication Engineering
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53	Priyanka Talagade	2hn17ec022	Electronics & Communication Engineering
54	Sangeeta Ragha	2hn17ec023	Electronics & Communication Engineering
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60	Snehal Gurav	2HN17EC029	Electronics & Communication Engineering
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62	SUPRIYA KULKARNI	2HN17EC031	Electronics & Communication Engineering
63	Surekha Hubballi	2hn17ec032	Electronics & Communication Engineering
64	Vaishali N Muchandi	2hn17ec033	Electronics & Communication Engineering
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**Fly Weight PBPC (Product Building With Python Course) Free
Training - 2023 Batch**

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9	Apoorva magadum	2HN19EC003	ECE
10	Divya Karigar	2HN19EC005	ECE
11	MARUTI MAGADUM	2HN19EC011	ECE
12	Nikita Hattarki	2HN19EC013	ECE
13	Rutuja Shetti	2HN19EC019	ECE
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15	Chidanand Harugeri	2HN19EE003	EEE
16	Dasharath karabari	2HN19EE004	EEE
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