

BOARD OF B.Sc CT-UG

Note: Submitted to Principal for One/Two credit courses offered in the academic year 2020-2021 Odd/Even Semester

S.No	Regulations	Course Name	Course Code (for Repeated Course)/ New Course	Name of the Co-ordinators (Max.2)	Experts details from Industry (yes/no)	Whether Expert(s) is/are Alumni(yes/no)	Lecture Hours	Practical Hours	Total Hours	Specify Fee per batch or fee per student	Course Duration		Offered to (Year/ Sem) Branch of the student,
											From	To	
1.	2018	Introduction to Git/Hub	New Course	Dr.C.N.Vanitha K.Sathya	NO	NO	10	20	30	NA	1.4.21	7.5.21	IIIV CSD,IS,SS
2.	2018	Programming with Golang	New Course	M.N.Kavitha S.S.Saranya	NO	NO	15	15	30	NA	8.3.21	16.5.21	IIIV CSD,IS,SS
3.	2018	Introduction to augmented reality using UNITY game engine	New Course	Dr.S.Parvathavarhini D.Hemalatha	Mr.Kavinkumar AliveNow Creative tech. Agency Bengaluru	YES	12	18	30	NA	16.3.21	6.4.21	IIIV CSD,IS,SS

The proposal may kindly be approved. These courses shall be approved/ratified in the BOS meeting.

[Signature]
Faculty In-Charge
[Dr. S.KARUNAKARAN]

[Signature]
HOD

[Signature]
CCO/Academic

Principal

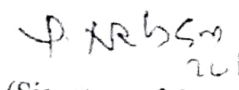
Encl: Minutes of Internal BOS for approval of the above courses.
Details of each course mentioned above as per the given format.
Copy of the Syllabus.

NOTE SUBMITTED TO PRINCIPAL FOR APPROVAL

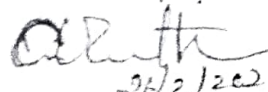
Sub: Request for permission to conduct one credit course - reg

1.	Academic Year	:	2020-2021			Semester	EVEN
2.	Course Title	:	Introduction to GitHub			Credit(s)	One Two
3.	Type of Course	:	New Course				
	• If "Already offered course",	:	Course Code:	Version:			
	Course Coordinator(s)	:	1. Dr.C.N.Vanitha 2.Mrs.K.Sathya				
	Course offered by	:	Internal faculty				
	Name and designation of external resource persons	:	NIL				
	Details about external organizaion	:	NIL				
Course fee for external experts			Max. number of students/Batch			Course fee - student	
NIL			30			NIL	
No. of days	Period		No. of hours			Venue	
	From	To	Lecture	Practical	Total		
15	01.04.2021	07.05.2021	10	20	30	CC3 Department of C.T - UG	
Pre-requisites for offering the course		:	Nil				
Course offered to		:	Programme	Branch		Year Semester	
		B.Sc	Computer Systems and Design, Information Systems and Software Systems		II Year - IV Semester III Year - VI Semester		
Course Main Contents		:	Day 1	Introduction and basic GitHub commands			
		Day 2	Creating and adding to Repository				
		Day 3	Commit - creating and viewing				
		Day 4	Creating remote repository - GitHub				
		Day 5	Synchronization of local repository and remote repository				
		Day 6	Creating branches and merging branches				
		Day 7	Conflicts and Strategies in merging				
		Day 8	Fetch, Pull, Clone and rebasing on repositories				
		Day 9	Rewriting history and Git Workflows				

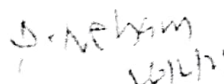
Day 10	Publishing repositories
Day 11	Distributed development
Day 12	Working with multiple Repositories
Day 13	Patches and Hooks
Day 14	Subversion Repositories
Day 15	Git graph models and version tracking
Assignment / Project / Case Study/ Others: Mini Project	

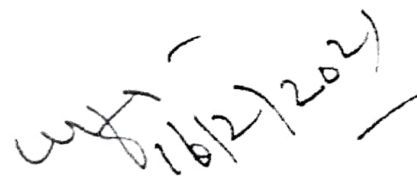
13. Course Outcomes	After completing the course the student will be able to: • outline the need for Git repository • create personalized Git repository for their applications • implement version controlling using Git		
14. Course Assessment (Min 2)	S. No.	Type	Max. Mark
	1.	Assessment 1 Multiple Choice Questions - 50	50 Marks
	2.	Assessment 2 Mini Project	50 Marks
	Total		100 Marks
15. Verified that the content of this course is not offered to students partially/fully in regular curriculum of respective programme of the student Certify that the course content, credits and grade are approved in the BOS meeting or approved by internal BOS members and will be ratified in the next BOS meeting	 (Signature of the HoD after verification)		
16. Any other details	-		

The above proposal may kindly be approved.


26/2/2021
(Dr. C. N. VANITHA)


26/2/2021
(K. SATHYA)
Course co-ordinator(s)


26/2/2021
HOD


26/2/2021
Chief Coordinator/Academic

Principal

Encl:

1. Copy of the syllabus of the course

INVAC62 - INTRODUCTION TO GITHUB

L	T	P	Credit
2	0	2	1

Preamble Git provides distributed software project management and access control mechanism. GitHub enables static web hosting services which provides public repository for learning community.

Unit - I Introduction to Version Control and Git.

5

DevOps and Git - Installation - The Git Command Line - Creating an Initial Repository - Adding a file to your repository - Configuring the commit author - Making another commit - Viewing your commits - Viewing commit differences - Removing and renaming files in your repository - Making a copy of your repository - Configuration files - Create remote repository - Push to remote repository - Git's graph model - Git IDs - Git References - Branches - Merging - Resolving merge conflicts - Merge strategies - Tracking branches

5

Unit - II Git and GitHub:

Fetch, Pull and Push - Rebasing - Rewriting history - Diff - Pull request - Git workflows - Publishing repositories - Repository structure - Living with distributed development - Knowing your Place - Working with multiple Repositories - Patches - Hooks - Using Git with Subversion Repositories - Git and GitHub

List of Exercises / Experiments:

- Experiment on basic Git Commands
- Creating Git local repository and adding files to it
- Creating remote repository - GitHub
- Synchronization of local repository and remote repository
- Experiment on creating branches and merging branches
- Experiment on merge conflicts and resolution
- Experiment on Fetch, Pull, Clone and rebasing on repositories
- Working with multiple repositories and configuration files
- Working with Patches and Hooks
- Experiment on Git graph models and version tracking
- Subversion
- Combining projects

Lecture:10, Practical:20, Total: 30

REFERENCES:

- Jon Loeliger and Matthew McCullough, "Version control with Git", 2nd Edition, O'Reilly USA, 2012
- Alex Magana and Joseph Muli, "Version control with Git and GitHub", 1st Edition, Packt Publishing Limited, India, 2018

COURSE OUTCOMES:

On completion of the course, the students will be able to

- CO1 outline the need for Git repository
- CO2 create personalized Git repository for their applications
- CO3 implement version controlling using Git

**BT Mapped
(Highest Level)**

Understanding (K2)

Applying (K3)

Applying (K3).

Manipulation (S2)

Mapping of COs with POs and PGOs

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PGO1	PGO2
CO1	3	2	1	1					3	2	2	2	2	2
CO2	3	2	1	1	2				3	2	2	2	2	2
CO3	3	2	1	1	2				3	2	2	2	2	3

1 - Slight, 2 - Moderate, 3 - Substantial, BT Bloom's Taxonomy

Test/Bloom's Category*	ASSESSMENT PATTERN						Total %
	Remembering (K1) %	Understanding (K2) %	Applying (K3) %	Analyzing (K4) %	Evaluating (K5) %	Creating (K6) %	
Assessment 1 (MCQ - 50 marks)	20	40	40				100
Assessment 2 (Mini-project - 50 marks)		40	60				100

with
P. S. H. P.

P. S. H. P.



KONGU ENGINEERING COLLEGE, PERUNDURAI-638060

Department of Computer Technology – UG

One Credit Course Mark List

Academic Year : 2020-2021

Semester : Even Semester

Course Name : Introduction to GitHub

Co-ordinators : Dr.C.N.Vanitha

Ms.K.Sathya

Date of Examination : 10.5.2021 (MCQs) & 11.5.2021 (Mini Project)

Programme: B.Sc - CSD

S.no	Roll Number	Name	Marks for 100
1.	19BCR001	AARTHI R	87
2.	19BCR003	AISHWARYA A K S	82
3.	19BCR013	DHINAKARAN S	84
4.	19BCR029	KAVIN PRAKASH M	AB
5.	19BCR030	KAVIYA K	79
6.	19BCR045	SANTHOSH KUMAR M	AB
7.	19BCR053	SIVASURYA S	88
8.	19BCR057	SWETHA NACHIYAR S	84

Programme: B.Sc - IS

S.no	Roll Number	Name	Marks for 100
1.	19BIR003	ANBARASU S	71
2.	19BIR018	JAMUNA K S	92
3.	19BIR024	KAVIYA SRIT A	92
4.	19BIR025	KOTTAI DINARAJ C	82
5.	19BIR031	NAVEEN SELVAM G	85

6.	19BIR058	VISHWATHIKAV	AB
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Programme: B.Sc -SS

S.no	Roll Number	Name	Marks for 100
1.	19BSR014	GOKULNATHM	83
2.	19BSR028	MANOJD	79
3.	19BSR046	SARANKUMARESHI	79

FACULTY INCHARGE :

1. *[Signature]* (K.SATHYA)
2. *[Signature]* (C.N.VANITHA)



Department of CT-UG Attendance Sheet

Title of the Course: 18VAC62 - Introduction to GitHub

Date: From 10.04.2021 to 10.05.2021

Co-ordinators: Dr.C.N.Vanitha & Ms.K.Sathya

Mode: Online mode

S.No	Roll no	Name	10/4	12/4	13/4	15/4	16/4	17/4	21/4	22/4	23/4	26/4	27/4	28/4	29/4	30/4	3/5	4/5	5/5	6/5	8/5	9/5
1.	19BCR001	AARTHI R	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	A
2.	19BCR003	AISHWARYAA K S	P	P	P	P	A	P	P	P	P	A	P	P	A	P	P	P	P	A	P	A
3.	19BCR013	DHINAKARAN S	P	A	A	P	P	P	P	A	A	P	A	P	P	P	P	P	P	A	P	P
4.	19BCR030	KAVIYA K	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	A	A	P
5.	19BCR053	SIVASURYA S	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	A	A	P	P
6.	19BCR057	SWETHA NACHIYAR S	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	A	P	P
7.	19BIR003	ANBARASU S	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P
8.	19BIR018	JAMUNA K S	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
9.	19BIR024	KAVIYA SRI T A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
10.	19BIR025	KOTTAI DINARAJ C	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P
11.	19BIR031	NAVEEN SELVAM G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12.	19BSR014	GOKULNATH M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13.	19BSR028	MANOJ D	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	19BSR046	SARANKUMARESH I	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P

1. Corbett
2. K. S. P. f
Course Faculty