

# Use of Technology for Internship Activities

By

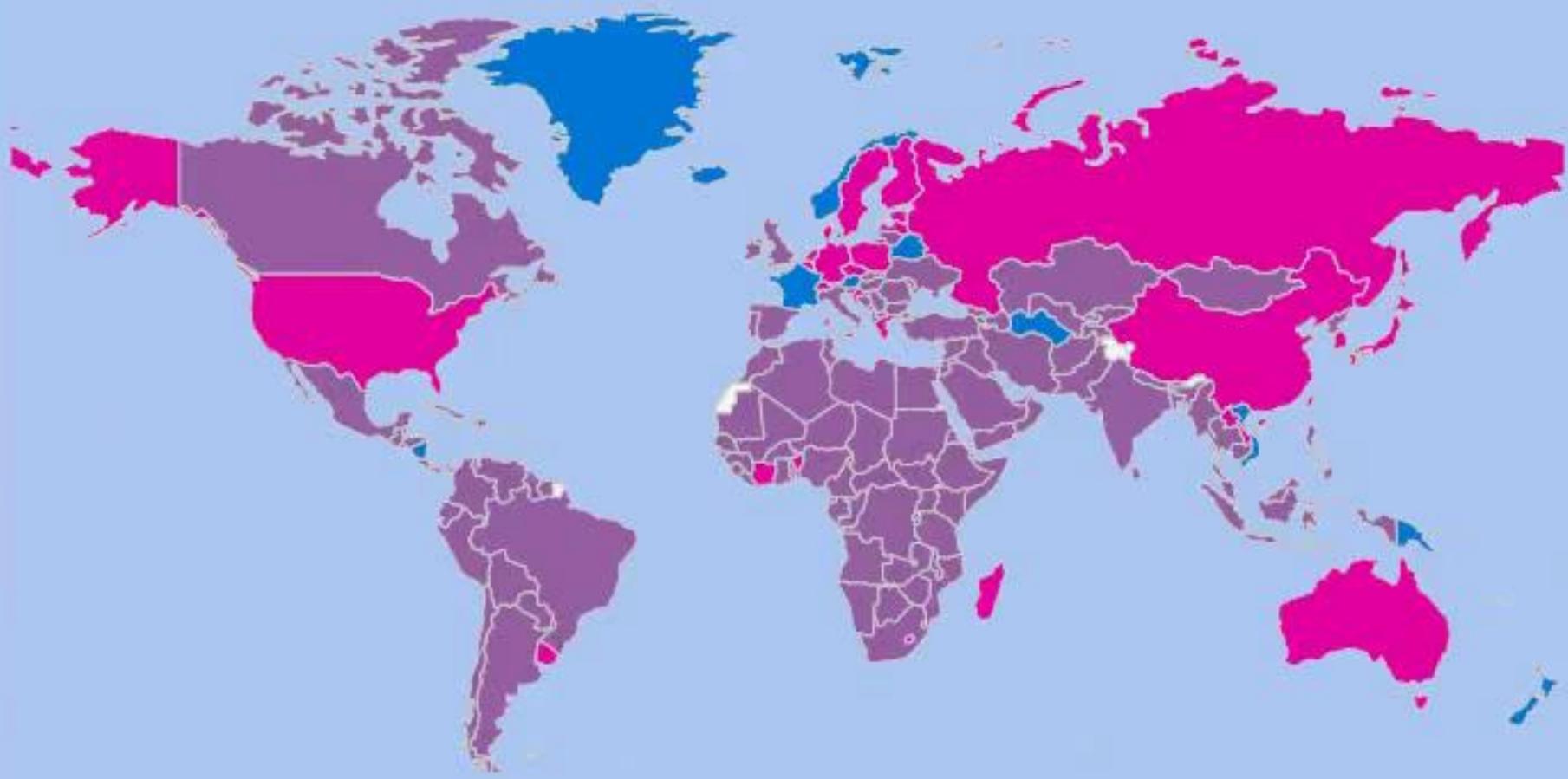
**Dr. G.K.SADAGOBAN., PharmD**  
**Faculty, Dept. Pharmacy Practice,**  
**JSS College of Pharmacy, Ooty**  
**JSSAHER**

# Outline

- **Why ICT in Education?**
- **Experiential ( Internship) Learning Methods - Online**
- **Our experience at JSSCP**
- **Sample e- Teaching & Learning Activities**
- **Challenges**

# Global monitoring of school closures caused by COVID-19

+  
-



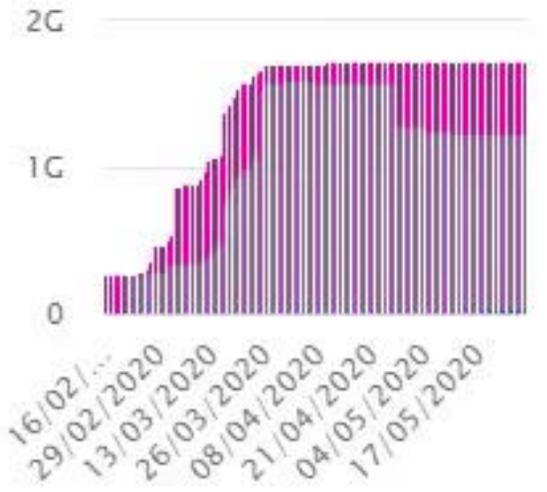
● Localized    ● Country-wide    ● Open

Highcharts.com

Visualize evolution over time.



28/05/2020



**1,190,287,189** affected learners  
**68%** of total enrolled learners  
**150** country-wide closures



But, Technologies and social media platforms are driving an unprecedented re-organization of the learning environment.



# Why Technology in Teaching & Learning?

- Ne(x)t Generation Learners. (*Internet, Mobile, Computer*)
- Improves self –directed learning. (*Flipped Class*)
- It offers flexibility and comfortable learning. (*Anytime & Anywhere*)
- Increases the Student - Teacher contact hours. (*24/7 Learning & Teaching*)
- Reduces Teachers/Trainers Manual Work Loads. (*Automated Assessment's*)
- Reduce Educational Expenditures (*Save Tree & Resources*)

# Experiential Learning Methods

## Synchronous



**Students learn at the same time.**

Communication happens in real time.

Possibly more engaging and effective.

Allows for instant feedback and clarification.



### Examples

Video conferencing, live chat, live streamed videos.

## Asynchronous



**Students learn at different times.**

Communication is not live.

Possibly more convenient and flexible.

Allows students to work at their own pace.



### Examples

Email, screencasts, Flipgrid videos, blog posts/comments.



# Instructional Strategies for Online Experiential Learning

ACTIVITY	METHOD	e-TOOLS ( Examples)
WARD ROUND PARTICIPATION	Asynchronous	FLIPGRID
CASE PRESENTATION & DISCUSSION ( Formal & Informal )	Synchronous	ZOOM
CLINICAL SERVICES (TCR,MR, PC, ADR, DI, DD and etc.)	Asynchronous	Google Forms, LMS or ELMS
JOURNAL CLUB DISCUSSION	Synchronous	ZOOM
SIMULATION ACTIVITIES (TCR,MR, PC, ADR, DI, DD and etc.)	Synchronous /Asynchronous	ZOOM, FLIPGRID, SIMULATORS
GROUP DISCUSSIONS	Asynchronous	LMS, Forum, SLACK
ASSIGNMENTS	Asynchronous	LMS, Google Classroom
E- TESTS	Asynchronous	LMS, KAHOOT

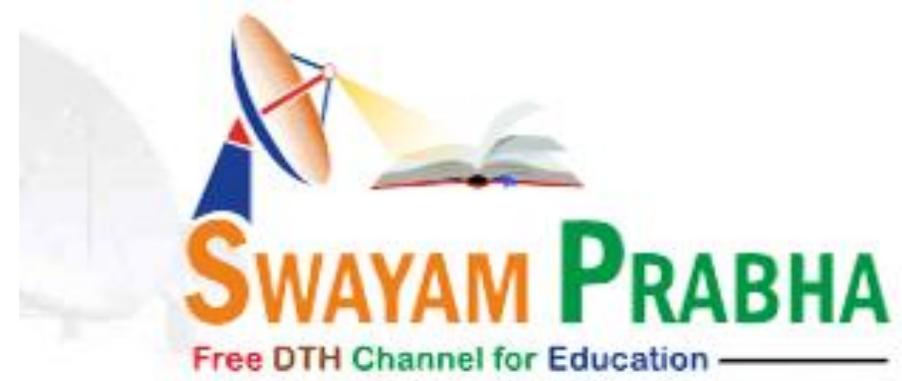
Note: You can Use PBL or CBL related simulated or real case scenarios for training purpose



OpenWHO.org

Access essential knowledge for managing public health emergencies

Open to all, anytime, from anywhere



NPTEL

NPTEL ONLINE CERTIFICATION COURSE

An Initiative of MHRD



Enabling research by sharing knowledge



KHAN ACADEMY



JHSPHOPEN courseware



**JSS  
ACADEMY  
OF HIGHER  
EDUCATION  
& RESEARCH**

(DEEMED TO BE UNIVERSITY)

M Y S U R U

**What we are doing?**

# LMS- JSSUONLINE



JSSU ONLINE  
A TEACHING & LEARNING PORTAL



Dr Swathi Swaroopa Borra  
JS150014  
swasasree@jssuni.edu.in

MY PROFILE ▾

JSS Academy of Higher Education and Research

RANKED = 64<sup>th</sup>

**THE** WORLD UNIVERSITY RANKINGS EMERGING ECONOMIES  
www.thewur.com

ASSESSMENT MCQ TEST	BOOK A FACILITY	BUSINESS CARD
CONFERENCES CONDUCTED	DIGITAL CONTENT	ENROL FOR CAMPUS WI-FI
ETAPAAL	FEEDBACK	LEAVE MANAGEMENT
LIBRARY	PUBLICATION & CONFERENCES UPDATE	RESEARCH IDEA
RESEARCH PROJECTS	SESSIONALS	STUDENT'S ATTENDANCE
TEACHER DIARY	TEACHING PLAN	

Teaching & Learning Resources

 SUBMIT A  
HELP DESK TICKET  
For all your computer-related problems

# ELMS - PharmAcademic



Home • My Profile • Change Password • Logout

gksadagoban@yahoo.com • JSS University Colleges of Pharmacy

MY PORTFOLIO • HELP

Global Task List My Schedule My Courses

Current Schedule  Filter by Date

Export to Excel

Start Date  End Date

Site Program	Schedule Item	Begin Date	End Date
JSS University Colleges of Pharmacy - Doctor of Pharmacy at JSS Colleges of Pharmacy, Mysuru & Ooty	Male Medical Ward with Jose, Anns at District Government Head Quarters Hospital, Ooty	1/1/2019	2/28/2019
JSS University Colleges of Pharmacy - Doctor of Pharmacy at JSS Colleges of Pharmacy, Mysuru & Ooty	Male Medical Ward with Kumar, Vignesh K. at District Government Head Quarters Hospital, Ooty	1/1/2019	2/28/2019

## JSS University Colleges of Pharmacy

Programs: Doctor of Pharmacy at JSS Colleges of Pharmacy, Mysuru & Ooty

Announcements Experiential Education Files

### Current Announcements

No announcements found.

# E Learn- PharmD Info

My courses

Reporting

Administration

Add

Search users

Logout



Homepage

My courses

Personal agenda

Reporting

Social network

Dashboard

Administration

Need Help?

23



Fri 29 May 2020 02:39:12 AM UTC



Welcome to our PharmD Info E- Learning system. Use the latest, stable [Mozilla Firefox Browser with Shockwave Adobe flash player and JAVA Applications](#) to avoid technical issues from e-learn portal. Students should provide your official [Registered Name](#) at the time of your E-Learn registration to avoid certification name errors. Students are requested to enter your [Registration No under the "CODE" section](#) during your registration process with the website. After registration, students should [add themselves into their Respective Group/Class](#) to continue their online course works. Wish you all a Happy Learning. Thank you.

If you have any questions feel free to Contact Us--[admin@pharmdinfo.com](mailto:admin@pharmdinfo.com)

Note: Users should make separate registration with PharmD Info E-Learn. ( Your PharmD Info forum account login details will not work with PharmD Info E-Learn)

Portal news

Profile

Inbox 23

Compose

Pending invitations

Personal data

Chat (Connected)

# Forums- PharmD Info



More ▾

Create account Login

## PharmD Info

A forum for Indian Pharmacy Professionals

Home > Pharmacist e-Forum

[Post Job Notifications -- Click Here](#)

### FORUM

#### TITLE

#### STATISTICS

#### LAST POST



#### Pharmacy Education

GPAT Questions, B Pharm/M Pharm/PharmD Course Study Materials and Notes, Online Courses, Drug Inspector Exams, Higher Studies, Group Discussions

Subforums: Pharm D Forums, Pharmacotherapy Case Discussion, Indian Pharmacy Preceptors, M Pharm Forums, B Pharm Forums, Higher Studies - Pharmacy, Group Discussions

441 Topics  
1050 Posts



Uncertainty and Sen...  
by Admin →  
26 May 2020, 15:40



#### Pharmacy Practice

Medication Therapy Management. Clinical Pharmacy Services, Pharmacotherapy Case Dis

180 Topics  
182 Posts



Toolkit for Managing ...  
by Admin →

### SEARCH FORUM



# Courseware – JSS-ENHANCED



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[ADMISSIONS](#) ▾

[ABOUT](#) ▾

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LEARN ONLINE, ANYTIME,  
ANYWHERE

Learning made SMART and EASY



# Mobile Applications



**JSSAHER E-Learn**  
EnhanzED Education Education  
3+  
This app is compatible with your device.  
Add to Wishlist



**Drug Info Service**  
Leopragi Medical  
3+  
This app is compatible with your device.

## PRECEPTOR MOBILE APPLICATION - JSSCPO



Patient Education  
Patient Education - Documentation Application



Pharmacist Intervention  
Pharmacist Intervention - Documentation Application

# Simulation Labs & Model Pharmacy



Model Pharmacy



Debriefing Station



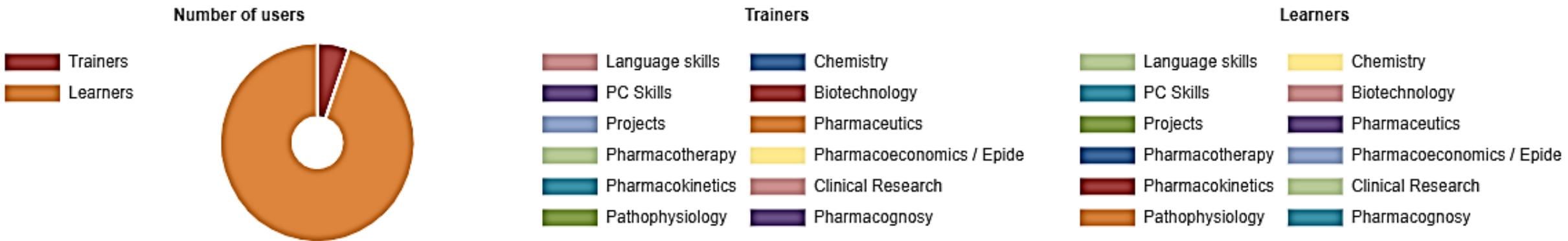
FRx Defibrillator



OSCE Station

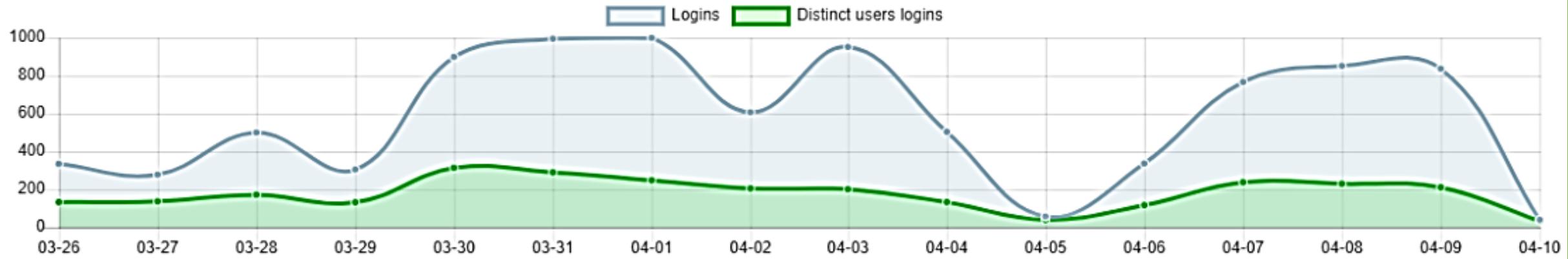
# Sample Online Activities & Reports

# Users Statistics – E Learn



Number of users	
Trainers	52
Learners	929
<b>Total: 981</b>	

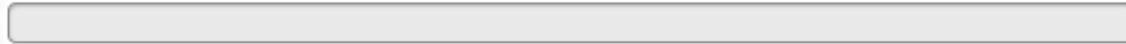
# Users – Login Status



## Logins

Today

2020-04-10 - 2020-04-11



5

Last 7 days

2020-04-03 - 2020-04-11



4.311

Last 15 days

2020-03-26 - 2020-04-11



9.267

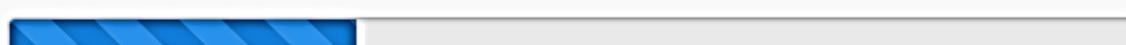
Last 31 days

2020-03-10 - 2020-04-11



11.805

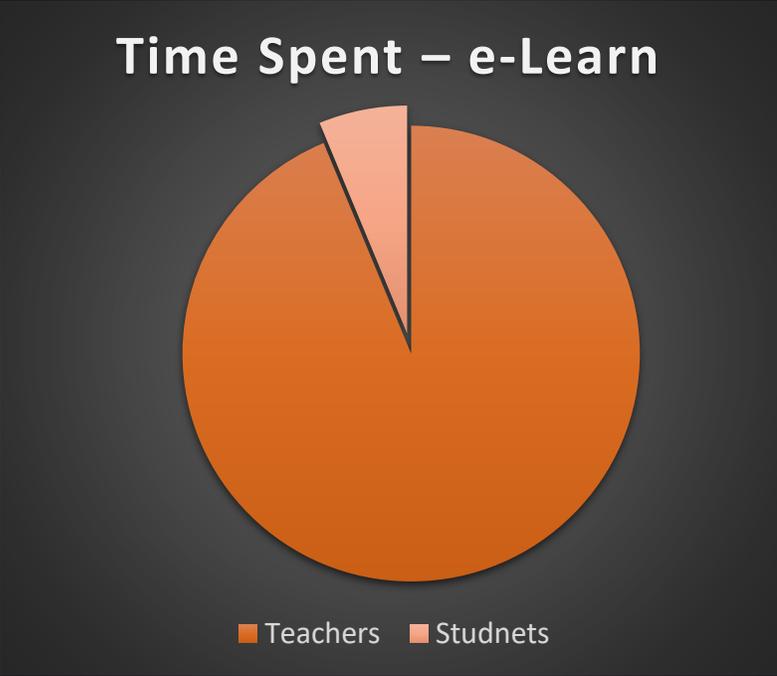
Total



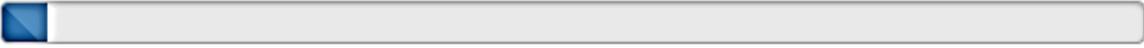
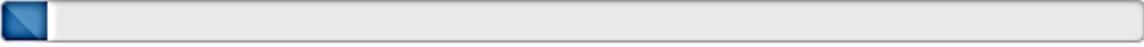
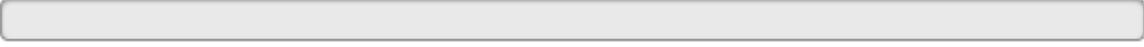
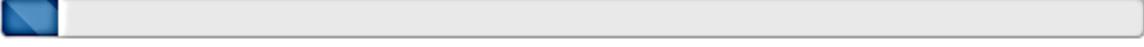
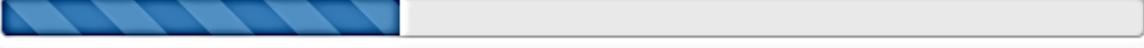
11.805

# Time Spent by Users (Trainers & Students)

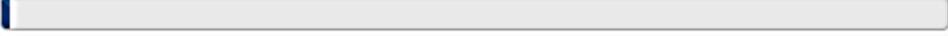
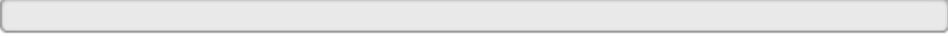
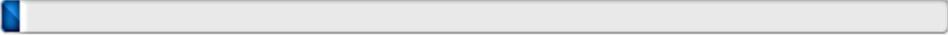
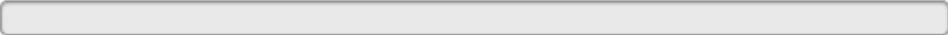
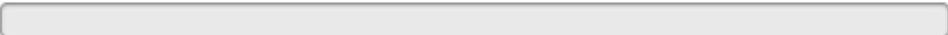
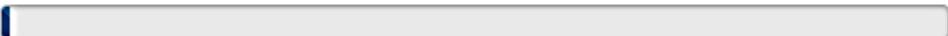
User	Hours Spent – e Learn
Trainer	630
Learner	12401
Total	13,031



# Course Categories and Learners

Pharmaceutics		116	15,5%
Pharmacoeconomics / Epidemiology		33	4,4%
Clinical Research		34	4,5%
Pharmacognosy		5	0,7%
Bio- Statistics		0	0,0%
Pharmacology		40	5,3%
Pharmacy Practice		262	35,0%
Total: 748			

# Tools Access Statistics- E Learn

Tools access		
Announcements		221 1,0%
Chat		61 0,3%
Document		452 2,0%
Dropbox		48 0,2%
Forum		73 0,3%
Courses		357 1,5%
Links		48 0,2%
Tests		9.106 39,3%
Assignments		12.525 54,1%
User		267 1,2%
Total: 23.158		

# Exam Reports – E Learn

Filtering with score 70%

Courses	Tests	Taken	Not taken	Pass minimum 70%	Fail	Total learners
LMS - Demo Course Work	Example Test	1	41	0	1	42
Pharmacotherapy-II ( 2019-20)	MCQ Test - HIV	29	0	15	14	29
	MCQ Test - Tuberculosis	29	0	20	9	29
	MCQ Test - Breast Cancer	0	29	0	0	29
	MCQ Test - COVID-19	25	4	20	5	29
	MCQ Test - Meningitis	26	3	1	25	29
	MCQ Test - Rational Use of Antibiotics	29	0	6	23	29
	MCQ Test - Renal Failure	29	0	5	24	29
	MCQ Test - Septicemia	28	1	28	0	29
	Clinical Toxicology -Pharm D 2019-20	Clinical Toxicology Test 7	37	3	27	10
Clinical Toxicology Test 8		38	2	28	10	40
Clinical Toxicology Test 1		39	1	19	20	40
Clinical Toxicology Test 2		37	3	11	26	40
Clinical Toxicology Test 3		37	3	28	9	40
Clinical Toxicology Test 4		39	1	26	13	40
Clinical Toxicology Test 5		39	1	30	9	40
Clinical Toxicology Test 6--		38	2	25	13	40
Clinical Toxicology Test 9		38	2	23	15	40

# Course View- Sample

Pharmacotherapy-II (2019-20) / Reporting

Switch to student view



Search users

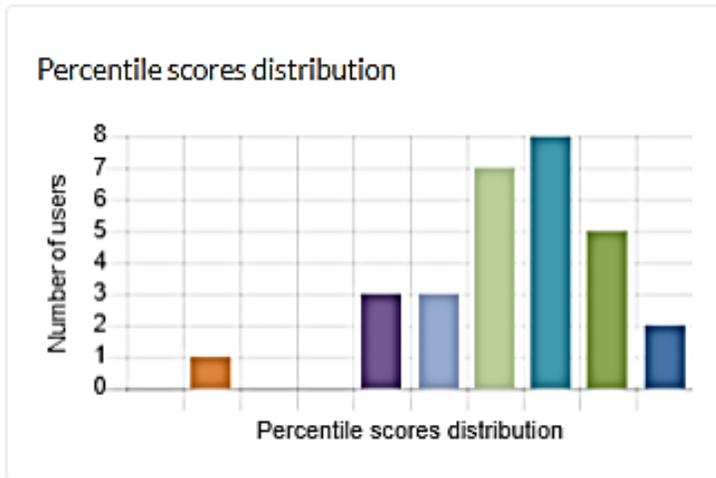


**Number of users**  
29

**Progress**  
0/29

**Exercise average**  
68%

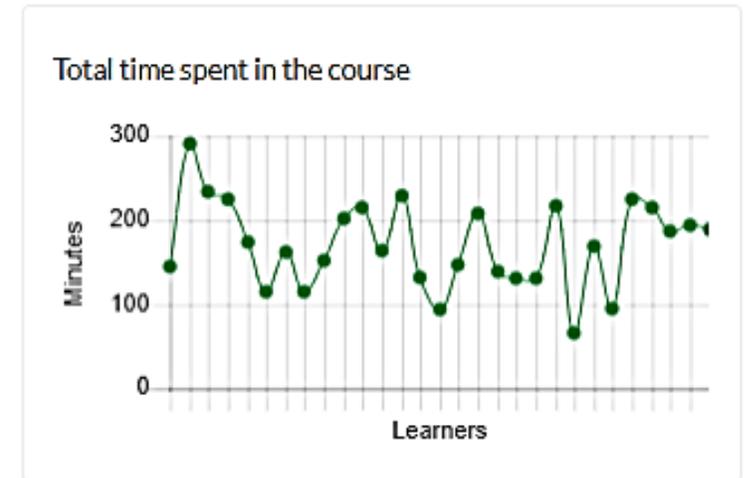
**Certificates count**  
9/29



### Outstanding students

- Anu Manuel  
46%
- Sangeetha Kamal  
45%
- Aditi Elizabath George  
42%

Note: This progress is obtained through a combination of progress in the learning paths and average scores in the tests



# Tools - Overview

PharmD Info My courses Reporting Administration Add Search users Site Owner Logout

 **Site Owner** **100%** **Course progress**  
Renal Failure & Its Management [See detail](#)

 Course description	 Agenda	 Documents	 Learning path	 Links	 Tests
 Announcements	 Forums	 Dropbox	 Users	 Groups	 Chat
 Assignments	 Surveys	 Wiki	 Assessments	 Glossary	 Notebook
					

# Student View - Sample











**Aysha siddhika .b**  
ayshaanzum01@gmail.com

**Status** Learner  
**Code** No code  
**Online** ●  
**Tel** +919486928903

Send legal agreement

 **Mar 25, 2020**  
First login in platform

 **Apr 09, 2020**  
Latest login in platform

 **Not Registered**  
Legal accepted

 **0**  
Friends

 **0**  
Invitation sent

 **0**  
Invitation received

 **0**  
Wall messages posted by him/herself

 **0**  
Number of messages sent

 **5**  
Number of messages received

## Course list

Course code	Title	Status	Time spent in the course	Total posts in all forums.	
DRUGSTOREANDBUSINESSMANAGEMENTDPH	Drug Store and Business management( D-Pharm II ) 2019-20	Learner	06:18:57	-	    
HOSPITALANDCLINICALPHARMACY	Hospital and Clinical Pharmacy - D Pharm - 2019-20	Learner	03:02:16	-	    
PHARMACEUTICALCHEMISTRYIIDIPLOMA20	Pharmaceutical Chemistry II, Diploma, 2019-20	Learner	00:26:04	-	    
PHARMACEUTICALJURISPRUDENCE	Pharmaceutical Jurisprudence - D Pharm - 2019-20	Learner	00:37:15	-	    
PHARMACEUTICSIIIDPHARM201920	Pharmaceutics II - D Pharm 2019-20	Learner	02:22:50	-	    
PHARMACOLOGYAMPTOXICOLOGY	Pharmacology / Toxicology D Pharm - 2019-20	Learner	02:06:50	-	    



# Assignment - Example

## Assignment-2

### Description:

Dear students,

As we decided in the classroom i request you to submit your assignments on the following title.

1. Mention the possible drug interaction when treating TB patients with different co-morbid conditions. ( One example with Mechanism of action)
2. Mention the TB treatment regimen for Pregnant women and in Pediatric population.

Your answer should be in text format. All students are requested to submit your assignments before the deadline.

Regards

SADAGOBAN

Type	First name ↕	Last name	Title	Performance	Date	Status	Detail
	Amarnath	Palani	Assignment-2	8.00 / 10.00	3 months, 6 days November 24, 2015 at 11:06 PM	Revised	
	ANNS	JOSE	PHARMACOTHERAPEUTICS ASSIGN...	8.00 / 10.00	3 months, 3 weeks November 04, 2015 at 06:03 PM	Revised	
	ASWATHY	RAJAN	ASWATHY RAJAN.docx	8.00 / 10.00	3 months, 3 weeks November 04, 2015 at 06:04 PM	Revised	
	Balaji	Shanmugavel	Assignment-2	9.00 / 10.00	3 months, 6 days November 24, 2015 at 09:24 PM	Revised	
	brisha	zechariah	ASSIGNMENT.docx	10.00 / 10.00	3 months, 3 weeks November 05, 2015 at 09:41 AM	Revised	
	devineni	yashaswini	TB treatment regimen for Pr...	7.00 / 10.00	3 months, 3 weeks November 04, 2015 at 06:48 PM	Revised	
					3 months, 3 weeks		

# E-Test- Example



Pharmacotherapeutics-I (2015-2016) / Tests / Diabetes Mellitus -Test

Learner View

Tue 01 Mar 2016 04:50:46 PM UTC



11 questions, for a total score (all questions) of 15.

A horizontal row of 12 question icons. The first 11 icons are in a light blue box and each has a yellow starburst in the bottom-left corner. The icons represent different question types: a list with a plus sign, a list with checkmarks, a list with a pencil, a list with a pencil and a box, a document with a pencil and the text "Hello...", a speaker, a landscape with a pencil, a list with checkmarks and "0/1", a list with three circles, a grid with checkmarks, a grid with checkmarks and "0/1", a list with checkmarks and a "G", and a mathematical function  $f(x)$ . The 12th icon, located in a separate light green box, is a yellow square with a circular dial.

# Project - Example

PharmD Info My courses Reporting Administration Add Search users Site Owner Logout

## PharmD Project-2015-16

PharmD Project

« March 2016 »

Mon	Tue	Wed	Thu	Fri	Sat	Sun
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Add a new role Assign roles Users rights management

### Roles in this project

Title	Description	Colour	Edit
Data Collection	From OP and Sidhha		
Literature Review	Submit all the literature's that we discussed in word format		
Statistical Work	Complete the statistical work before deadline		

### Assigned tasks

Member	Task	Description	Date	Edit
Anu Varghese	Data Collection	From OP and Sidhha	2015-12-05	
pragadeesh manigandan	Statistical Work	Complete the statistical work before deadline	2015-12-20	

### Search

### My tasks

# Course Work - Example

Renal Failure & Its Management / Learning paths / Renal System- Introduction / Preview Teacher View

Course home

  90%

Dr.G.K.Sadagoban  
Ms.DeepaLakshmi  
M.Gomathi

## Renal System- Introduction

- Introduction
- Kidney Anatomy 
- Renal Anatomy with Test 
- Urine Formation 
- Kindeg Function- swf 
- RAAS System 

## Renal Failure & Its Management

### Course Work-2016

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**JSS college of Pharmacy,Ooty**

**Department of Pharmacy Practice**

Course Coordinator

Dr.S.Ponnusankar, M.Pharm, PhD

Trainers

Dr.G.K.Sadagoban., Pharm.D  
Ms.M.Deepalakshmi, M.Pharm  
Dr. Swathi Swaroopa. B ., Pharm.D  
Dr.Keerthana., Pharm.D



# Group Discussion - Example

## PharmD Info - Forum

[www.pharmdinfo.com](http://www.pharmdinfo.com)

### Online Group Discussion- 3

**Title: “PharmD Research Project - An overview”**

**Date: 20<sup>th</sup> to 21<sup>st</sup> April 2020**

#### Resource Person

Dr Krishna Undela, M.Pharm, Ph.D.  
Faculty, Department of Pharmacy Practice,  
JSS College of Pharmacy, JSSAHER Mysuru, India



# Attendance - Sample



Ponnusankar Sivasankaran

## Clinical Pharmacy - PharmD 2019-20

<b>Trainer:</b>	Ponnusankar Sivasankaran
<b>Course:</b>	Clinical Pharmacy - PharmD 2019-20 (CLINICALPHARMACY)
<b>Date:</b>	April 04, 2020 at 10:20 AM

#	Name	27/03 02:55 PM	30/03 10:05 PM	31/03 10:05 PM	02/04 04:55 PM	03/04 10:18 AM
1	Maria Adil khan	P	P	P	P	P
2	Shahban Ahamed	P	P	P	P	P
3	Bhavatharini Arun	P	P	P	P	P
4	Deepu Babu	P	P	P	P	P
5	Aiswarya Baiju	P	P	P	P	P
6	Binit Benny	P	P	P	P	P
7	Joel D	P	P	P	P	P
8	ganga priyadharshini dhanasekaran	P	P	P	P	P
9	Sutheeswaran Gunasekaran	P	P	P	P	P
10	Oorvashree Hari	P	P	NP	P	P

# Assessment – Sample



Ponnusankar Sivasankaran

## AVERAGE Detailed

<b>Trainer:</b>	Ponnusankar Sivasankaran
<b>Course:</b>	Clinical Pharmacy - PharmD 2019-20 (CLINICALPHARMACY)
<b>Date:</b>	April 04, 2020 at 10:20 AM

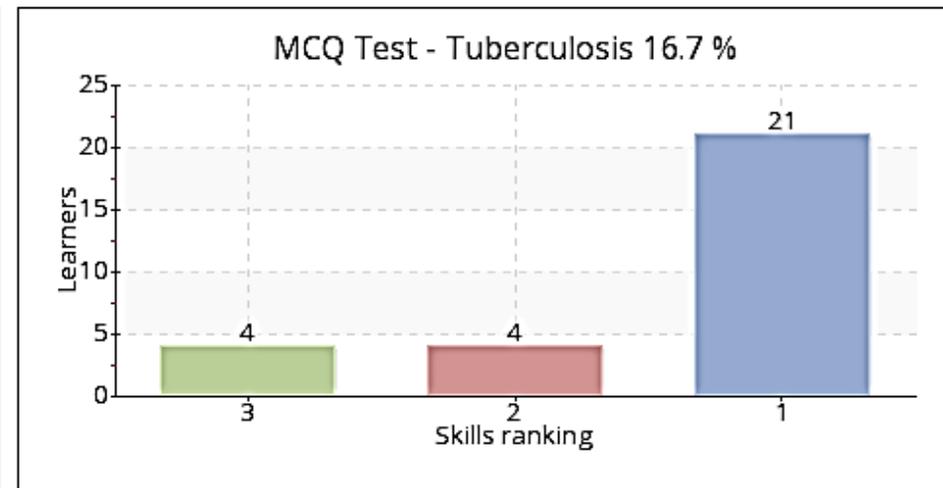
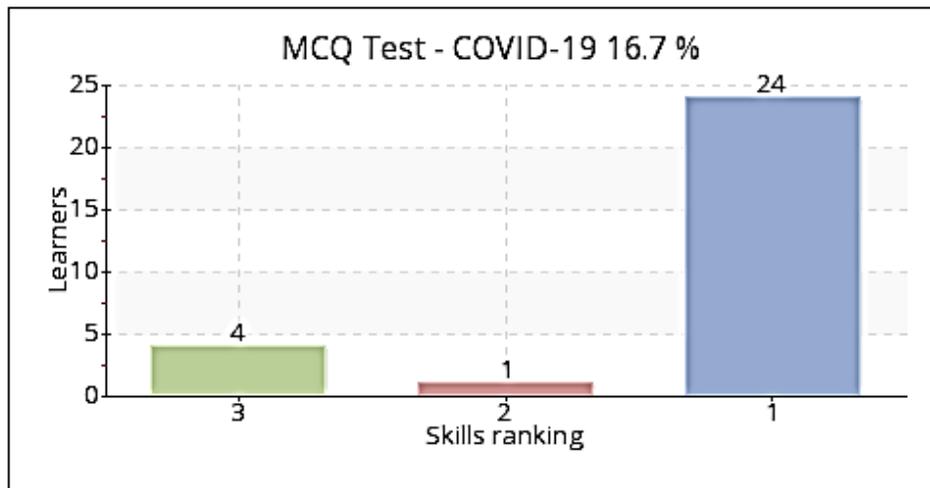
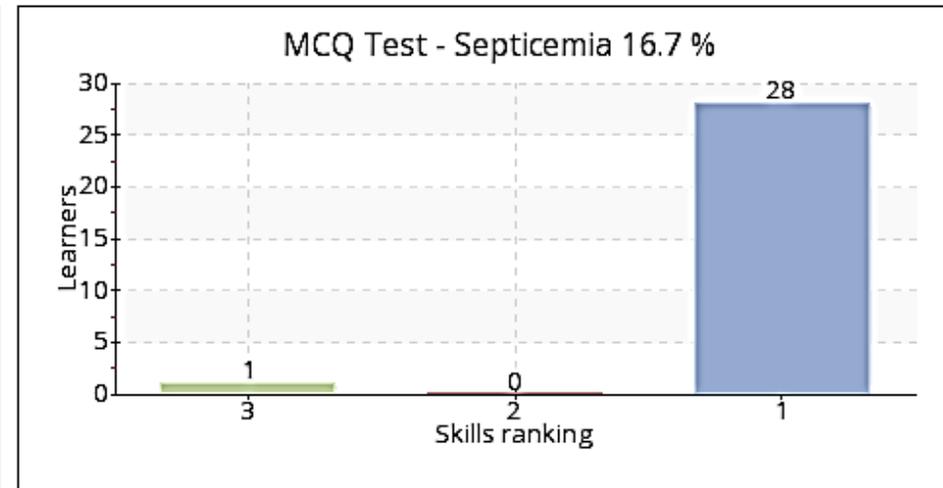
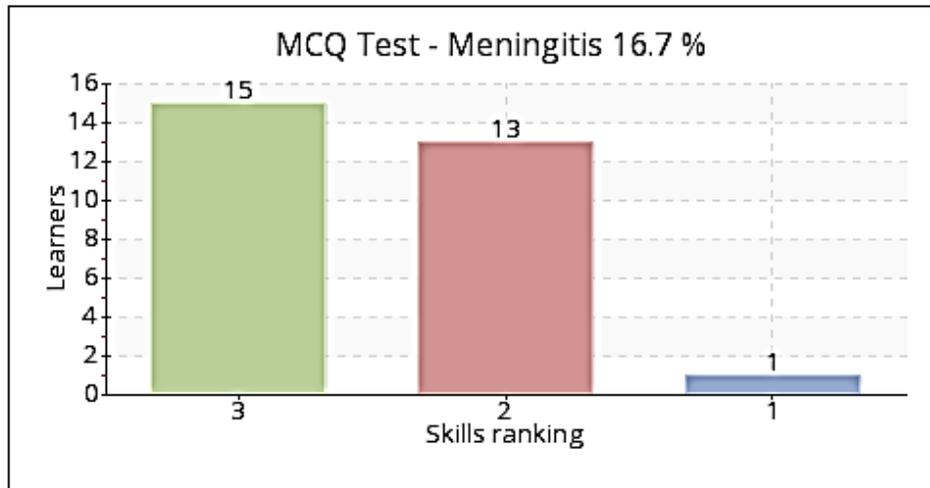
All

1 - 39 / 39

1 / 1

First name	Last name ↓	Username	Pharmacovigilance Test MCQs 20 %	Introduction to clinical pharmacy and services 20 %	Introduction to daily activities of clinical pharmacists 20 %	Drug & Poison Information Services & Pharmaceutical Care Concepts 20 %	Patient data analysis & Medical abbreviations and Pharmaceutical Care Concepts 20 %	Attendances 0 %	TOTAL
<a href="#">Maria</a>	<a href="#">Adil khan</a>	Maria	6 / 10 (60 %) - 2	17 / 20 (85 %) - 1	20 / 20 (100 %) - 1	4 / 10 (40 %) - 3	10 / 10 (100 %) - 1	5 / 5 (100 %) - 1	77 / 100 (77 %)
<a href="#">Shahban</a>	<a href="#">Ahamed</a>	Shahban2912	6 / 10 (60 %) - 2	14 / 20 (70 %) - 1	11 / 20 (55 %) - 2	6 / 10 (60 %) - 2	3 / 10 (30 %) - 3	5 / 5 (100 %) - 1	55 / 100 (55 %)
<a href="#">Bhavatharini</a>	<a href="#">Arun</a>	Bhavathariniarun	7 / 10 (70 %) - 1	17 / 20 (85 %) - 1	15 / 20 (75 %) - 1	8 / 10 (80 %) - 1	10 / 10 (100 %) - 1	5 / 5 (100 %) - 1	82 / 100 (82 %)
<a href="#">Deepu</a>	<a href="#">Babu</a>	Deepu98	10 / 10 (100 %) - 1	14 / 20 (70 %) - 1	17 / 20 (85 %) - 1	7 / 10 (70 %) - 1	9 / 10 (90 %) - 1	5 / 5 (100 %) - 1	83 / 100 (83 %)
<a href="#">Aiswarya</a>	<a href="#">Baiju</a>	Aisu	10 / 10 (100 %) - 1	15 / 20 (75 %) - 1	19 / 20 (95 %) - 1	10 / 10 (100 %) - 1	10 / 10 (100 %) - 1	5 / 5 (100 %) - 1	94 / 100 (94 %)

# Skill Ranking - Sample



# Technical Issues – E Learn

- Total No of Issues ( Support Tickets) Received: 19
- Total No of Issues Resolved : 18
- Total No of issues Not Resolved: 01

#	Status	Date ↑	Last update	Category	Created by	Assigned to	Message
 A00000000019 Cannot upload profile picture 	Forwarded	18 hours ago	less than a minute ago	General information	Govind Kartha (GovindKartha)	Swathi Swaroopa Borra (swathimasthani)	2
 A00000000018 Not able to upload profile picture. 	Forwarded	19 hours ago	1 minute ago	Academic Incidents	Deepu Babu (Deepu98)	Swathi Swaroopa Borra (swathimasthani)	1
 A00000000017 Regarding profile picture upload 	Pending	20 hours ago	1 minute ago	General information	Shri Sanghavi (ShriSanghavi)	Swathi Swaroopa Borra (swathimasthani)	1
 A00000000016 Pharmacoepidemiology and Pharmacoeconomics audio submission 	Close	20 hours ago	2 minutes ago	Academic Incidents	Bhavya Chebrolu (Bhavya)	Sadagoban G K (Admin)	3
 A00000000015 Unable to uploaad assignment 	Forwarded	1 day ago	23 hours ago	Academic Incidents	Khaleelu Rahman (Khaleelu)	Sadagoban G K (Admin)	2
 A00000000014 Regarding upload of ny assignments 	Close	3 days ago	23 hours ago	Academic Incidents	Samvel P (Samvel)	Srikanth Jupudi (srikanthjupudi)	4

# Challenges.. (May be)

- Do all the students have internet /devices?
- Will your staff and students adapt the digital pedagogies?
- Technological difficulties & Lack of IT support ?
- Which online tools will be suitable and affordable?
- How to overcome the Web & Security issues?

We are Together & Alone!



STAY SAFE...

