

Use of Technology for Internship Activities

By

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JSS College of Pharmacy, Ooty
JSSAHER

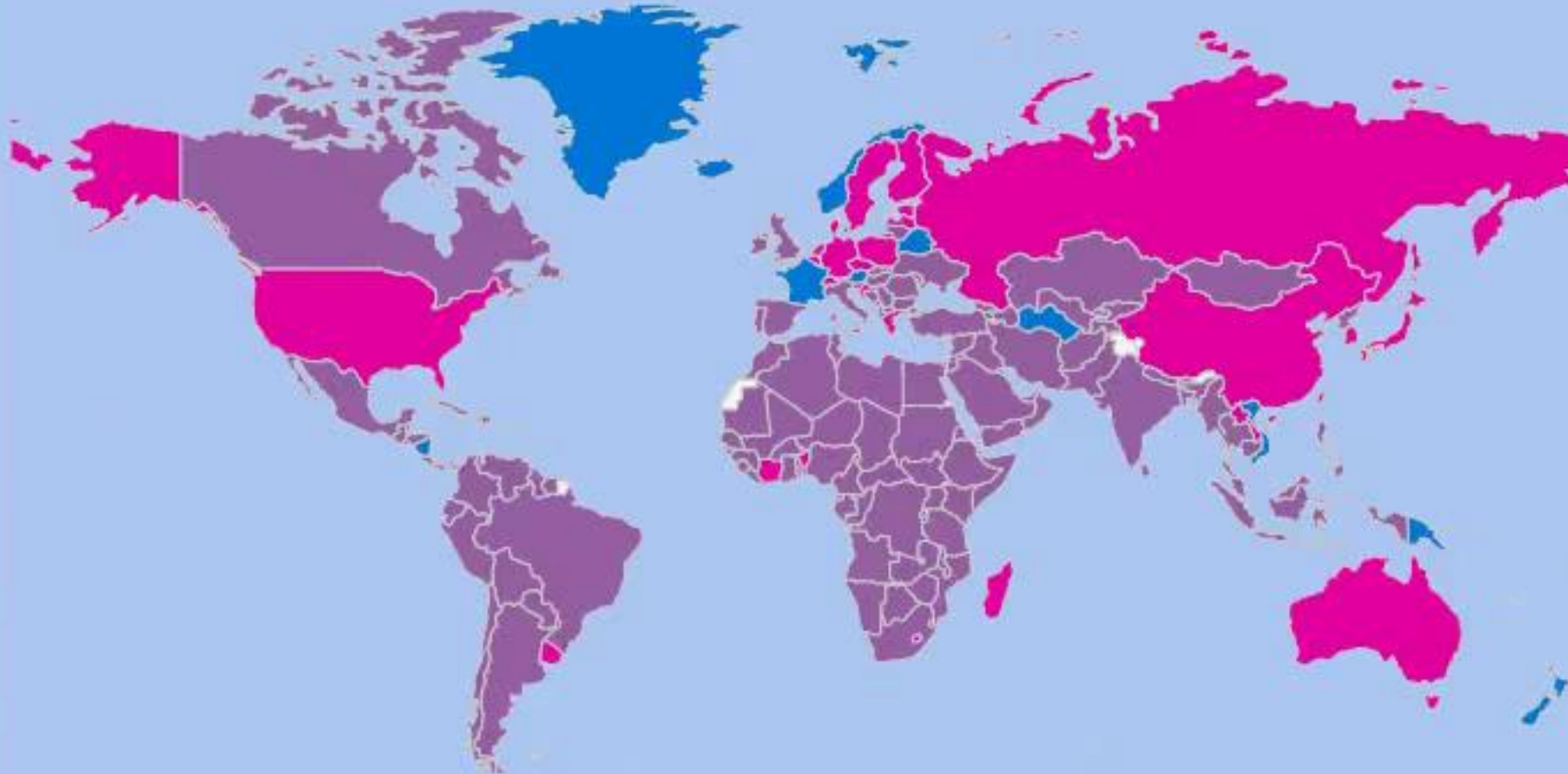
Outline

- **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

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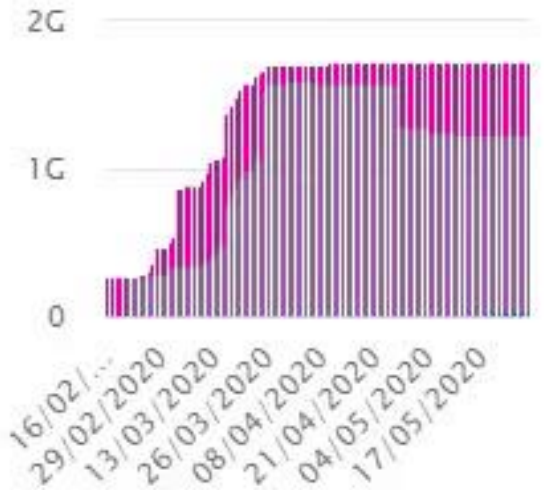
● Localized ● Country-wide ● Open

Highcharts.com

Visualize evolution over time.



28/05/2020



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



KAPWING

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.

What to USE?

Top 200 Tools for Learning 2019	
Top 10	         
11-20	         
21-40	                 
41-60	                
61-80	              
81-100	           
101-120	               
121-140	            
141-160	           
161-180	         
181-200	           

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



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 = 64th

THE WORLD UNIVERSITY RANKINGS EMERGING ECONOMIES
www.thewur.com

Teaching & Learning Resources



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

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	

ELMS - PharmAcademic



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☐ Current Schedule ☒ Filter by Date

Start Date

End Date

[Search](#)

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](#)

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Current Announcements

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E Learn- PharmD Info

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Fri 29 May 2020 02:39:12 AM UTC




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If you have any questions feel free to Contact Us--admin@pharmdinfo.com


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Forums- PharmD Info







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PharmD Info

A forum for Indian Pharmacy Professionals

 > Pharmacist e-Forum

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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

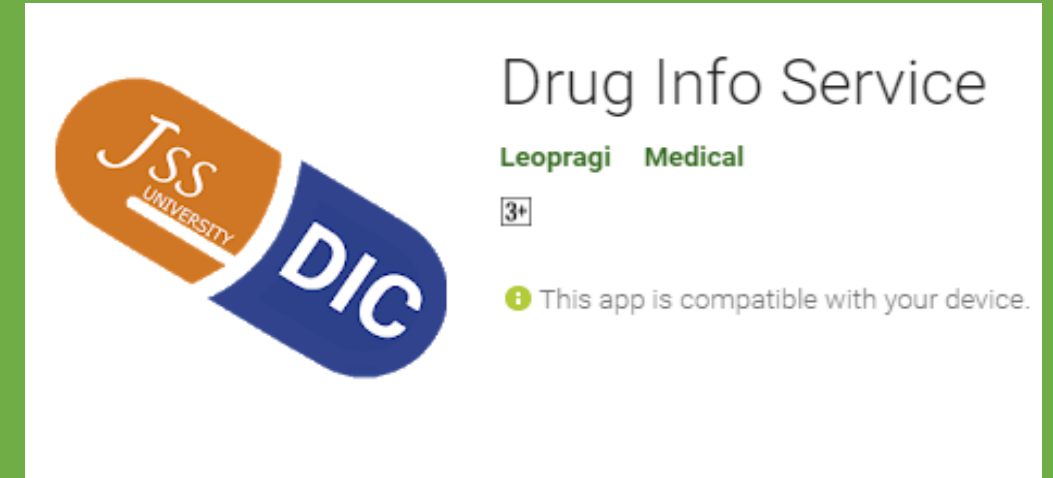
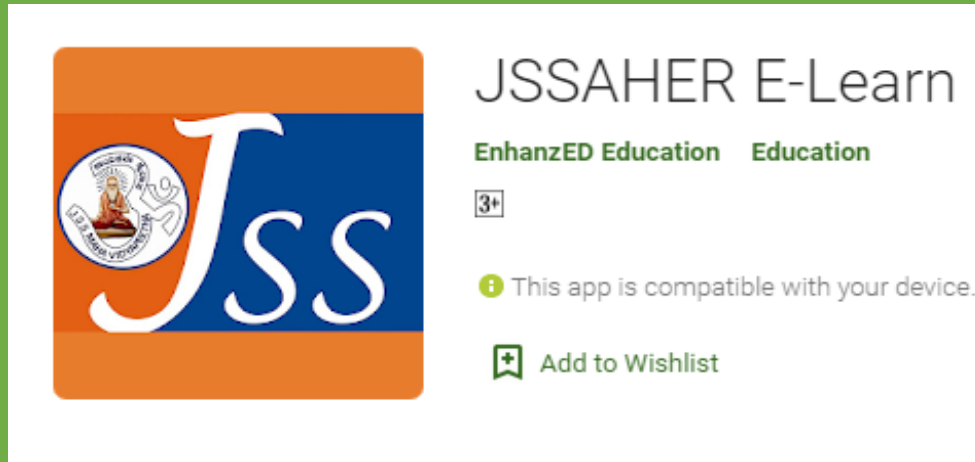
[PROGRAMS ▼](#)[ADMISSIONS ▼](#)[ABOUT ▼](#)[CONTACT US](#)[RESEARCH FORUM](#)[QUICK TOUR](#)[LOGIN](#)

LEARN ONLINE, ANYTIME,
ANYWHERE

Learning made SMART and EASY



Mobile Applications



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

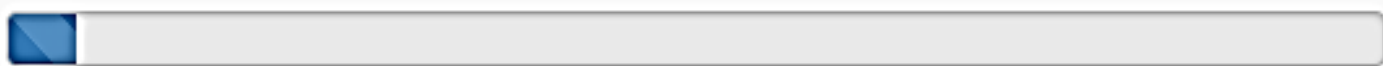


Learners



Number of users

Trainers



52

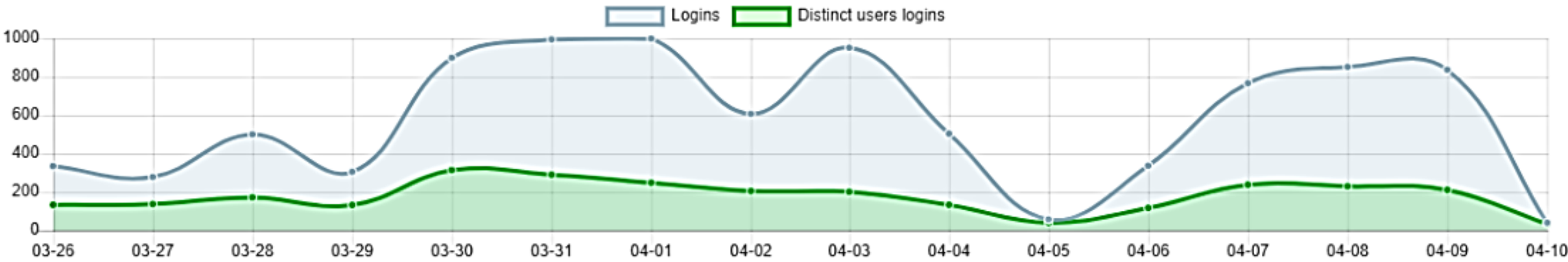
Learners



929

Total: 981

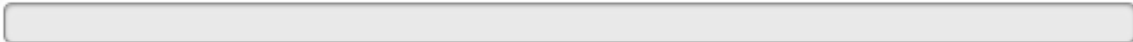
Users – Login Status



Logins

Today

2020-04-10 - 2020-04-11



5

Last 7 days

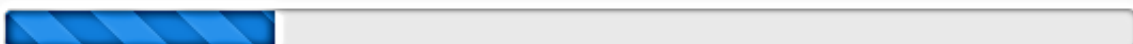
2020-04-03 - 2020-04-11



4.311

Last 15 days

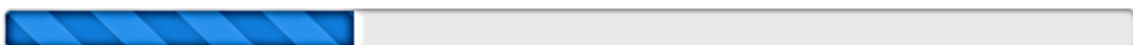
2020-03-26 - 2020-04-11



9.267

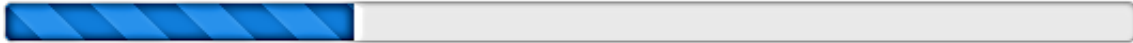
Last 31 days

2020-03-10 - 2020-04-11



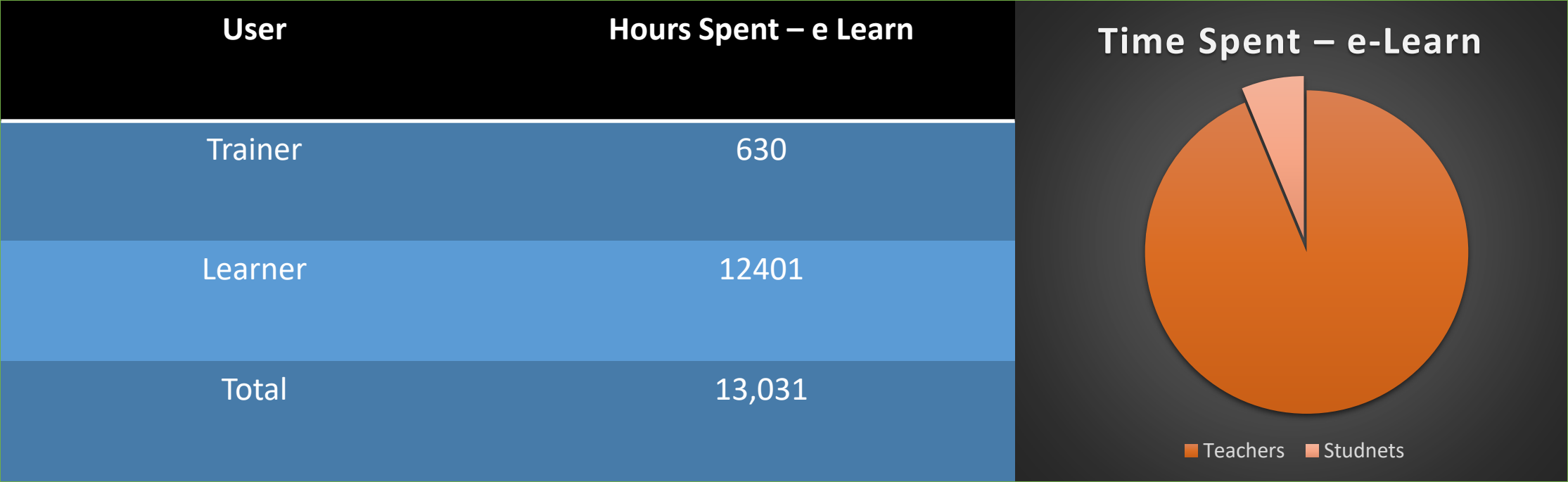
11.805

Total

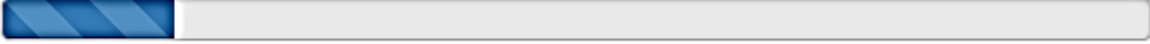

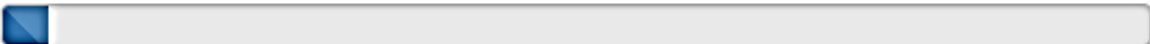
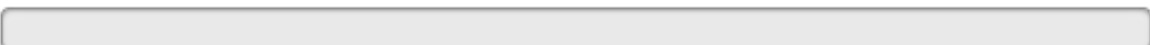


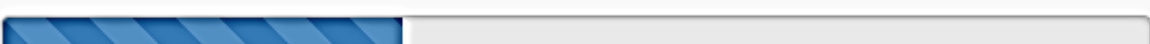


11.805



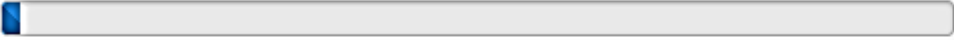
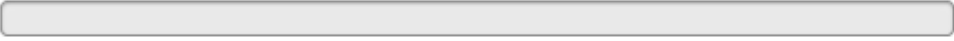
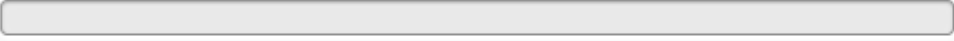

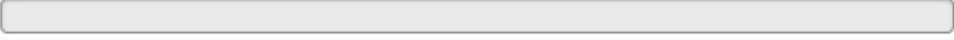
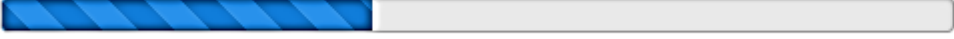

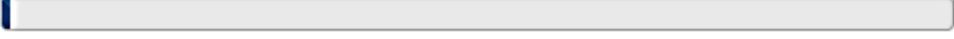
Time Spent by Users (Trainers & Students)



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 Test 7	37	3	27	10	40
Clinical Toxicology -Pharm D 2019-20	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](#)

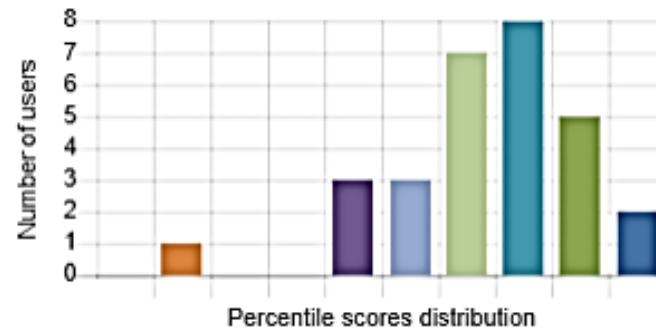
Number of users
29

Progress
0/29

Exercise average
68%

Certificates count
9/29

Percentile scores distribution



Outstanding students



Anu Manuel

46%



Sangeetha Kamal

45%

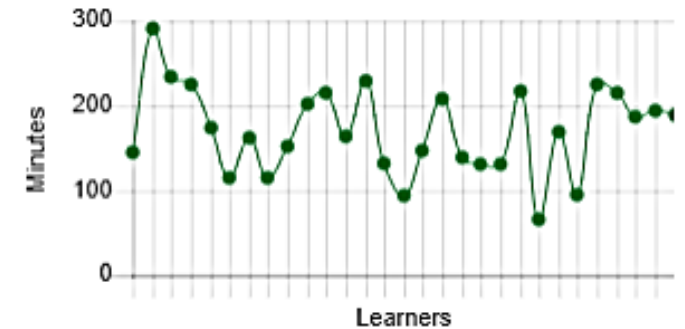


Aditi Elizabeth George

42%


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


Total time spent in the course




Tools - Overview


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 **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	-	

Course Agenda- Sample

today

<

>

April 2020

month

week

day

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	
Stay Safe, Stay Home, Save Life						
10:35 - 10:35 Update your Profile Picture - (Professional)						
11:00 Handing over of task Define prescription. Explain the parts of prescription	5:29 Handing over of task National health programs its function and outcomes	5:29 Handing over of task Write the numbers 1 to 5 in an order.	MCQ Test - HIV	11:00 Handing over of task Write a note on therapeutic incompatibility		
12:00 Handing over of task Write a note on imperial and metric system	10:37 - 10:37 Online Test - Important Instruction					
12:10 - 12:10 Submitting Assignments- Tutorial						
15:00 - 15:00 Technical Issues? - Report Here						
	10:37 - 10:37 Online Test - Important Instruction					
	16:00 Handing over of task Assignment 1- Applications of Pharmacoeconomics	11:00 Handing over of task Define incompatibility. Write a note on physical incompatibility	MCQ Test - Spontaneous Reporting	23:59 Handing over of task HOSPITAL AND CLINICAL PHARMACY		
		12:00 Handing over of task Write a note on chemical incompatibility	5:30 Ram Navami			
	12:37 - 12:37 Update CODE Section - Important					
		17:00 Handing over of task 1. Classify anti epileptic drugs. Describe the Pharmacological action, mechanism and uses of Phenytoin				
		17:00 Handing over of task 2. Classify opioid analgesics.				

Assignment - Example

[PharmD Info](#)[My courses](#)[Reporting ▾](#)[Administration ▾](#)[Add ▾](#)[Site Owner ▾](#)[Logout](#)

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		



Chat (Disconnected)

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.



Project - Example

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 [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			

Search



My tasks

 Add a new role  Assign roles  Users rights management

Roles in this project

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

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	




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 
- Kidney Function- swf 
- RAAS System 

Renal Failure & Its Management

Course Work-2016

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

Online Group Discussion- 3

Title: “PharmD Research Project - An overview”

Date: 20th to 21st 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

Trainer:	Ponnusankar Sivasankaran
Course:	Clinical Pharmacy - PharmD 2019-20 (CLINICALPHARMACY)
Date:	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

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

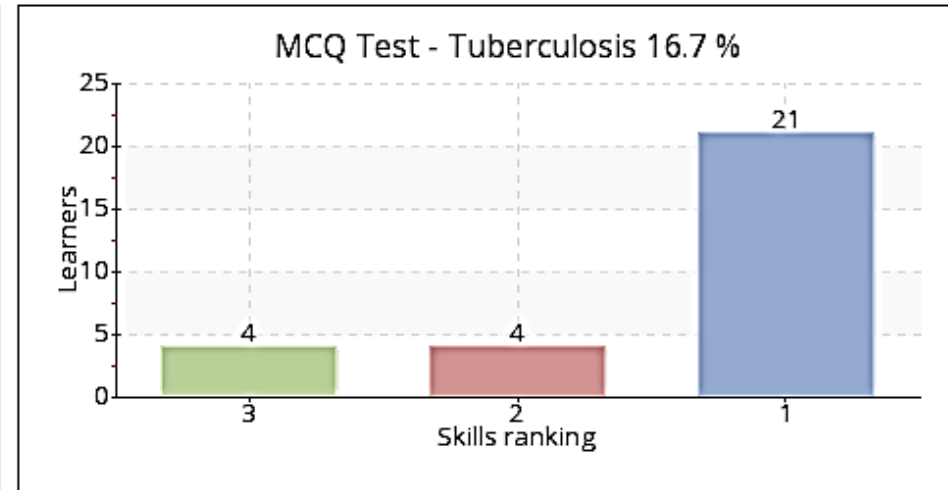
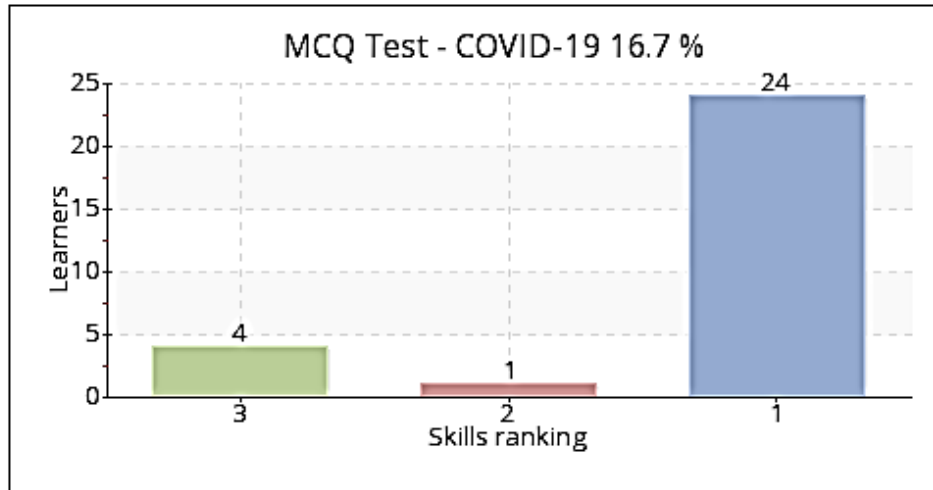
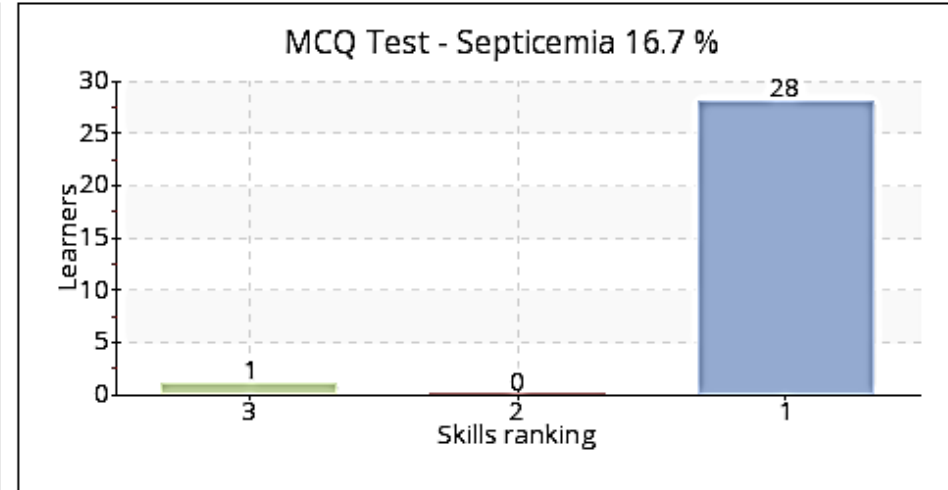
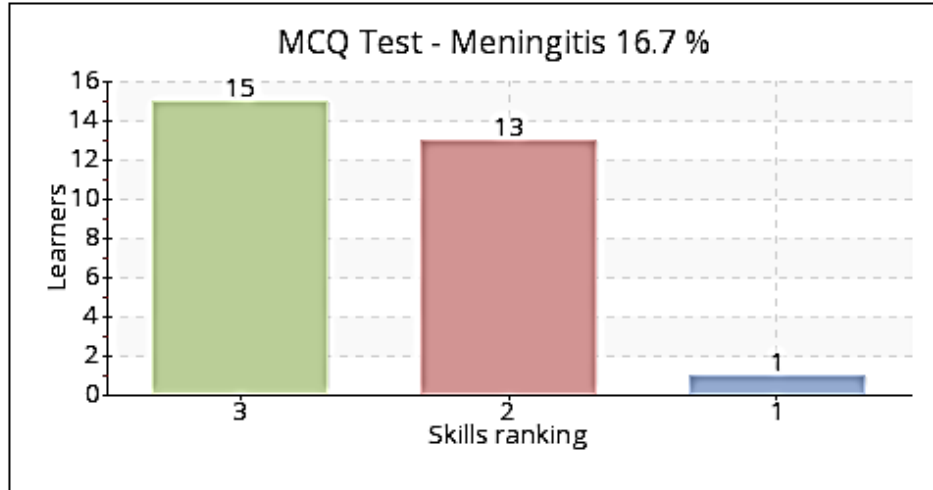
All ▼ Save

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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
Maria	Adil khan	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 %)
Shahban	Ahamed	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 %)
Bhavatharini	Arun	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 %)
Deepu	Babu	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 %)
Aiswarya	Baiju	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 upload assignment 🧑🧑	Forwarded	1 day ago	23 hours ago	Academic Incidents	Khaleelu Rahman (Khaleelu)	Sadagoban G K (Admin)	2
 A00000000014 Regarding upload of my 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...

