

# Digitization of ITI for Continuity and Quality of Education

# Current Challenges & Opportunities



Institute Closure Has  
Mandated Online Learning



Most of the Students don't have access  
to Smartphones and Laptops



Systematic Approach for  
National Education Policy 2020



Supporting Platform for Online  
and Classroom Teaching Learning



Quality Education Delivery at  
Rural parts of State



Uniform Profile and Credit System  
for Students & Faculties

# **Project Scope and Components - Online Teaching & Learning**

- Component 1: Study from Home
- Component 2: Centralized Learning Management Solution
- Component 3: Institute Academic Management Solution
- Component 4: Student and Faculty Dossier
- Component 5: Supplementary Curriculum

# Model of Digital Education

## Continuity in Education: Study from Home

- Centralized Lecture Delivery
- Institute-level Lecture Delivery

## Uniform and Quality Education (Online)

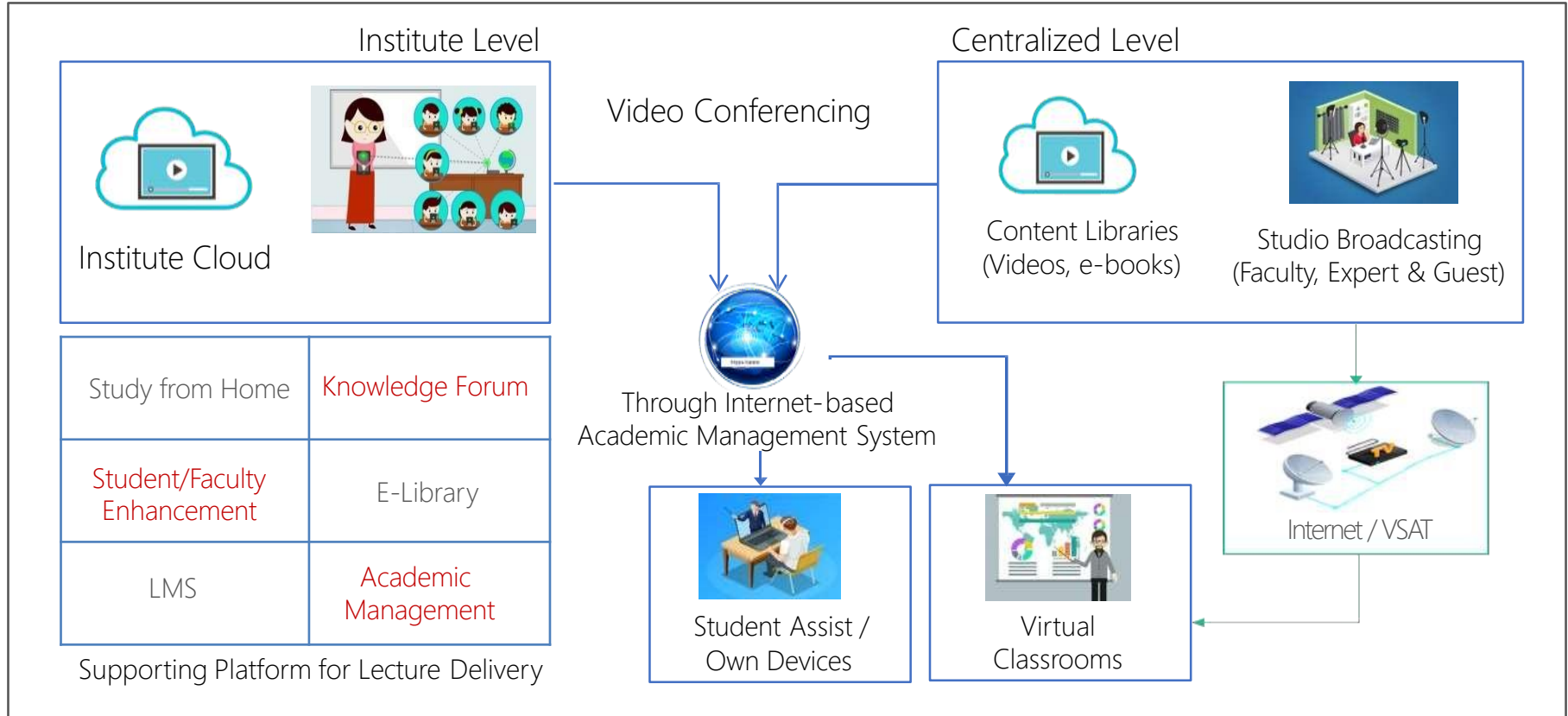
- Studios and Virtual Classrooms
- Student Assist Devices
- Internet / VSAT Connectivity

## Supporting Platform for Education Delivery

- Academic Management & Assessment
- Student Development
- Faculty Development
- LMS
- Knowledge Forum



# Continuity in Education



# Student and Faculty Assist Devices

## Ease of Access

Access to academic applications like lecture, timetable, etc.

## Accessibility

Student own device for education purpose, avoid dependency on parents devices

## Student Ownership

Self study content, study group, inbuilt & cloud based content

## Digital Study Medium

Access to unlimited books and Audio/Video Content



Access and utilization of student development program, syllabus with supplementary content, lecture & time table, attendance, class-test, assignment, online classroom-institute-communication, knowledge forum, library, performance measurement and additional applications

# Digital Backbone of Education

- End-to-end digital backbone & platform for improving Teachers Training & Quality of Education
- Integrated modules support all processes of Lecture Delivery
- Creating uniform, organized and efficient educational system

## Academic Management:

- Syllabus & Lecture Scheduler
- Attendance
- Assignment
- Understanding
- Feedback & Audit
- Class test & Online Exam
- Performance & Outcome
- Dynamic Reports

## Assesment / Exam:

Specific focus on vivas and objective-based assessments ensuring the understanding and application of subject

## LMS & Content Platform

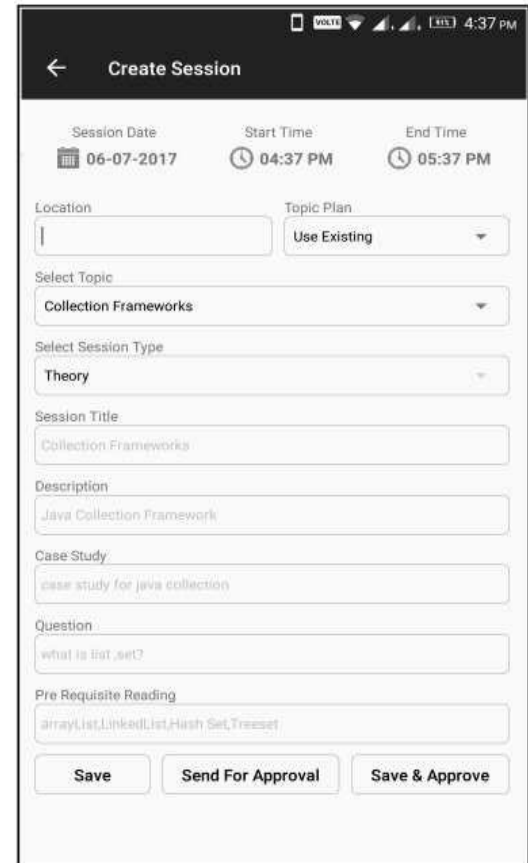
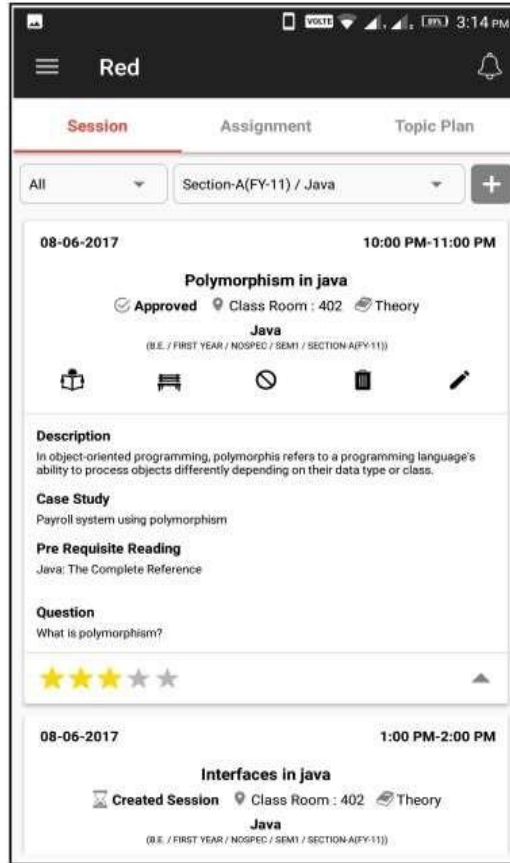
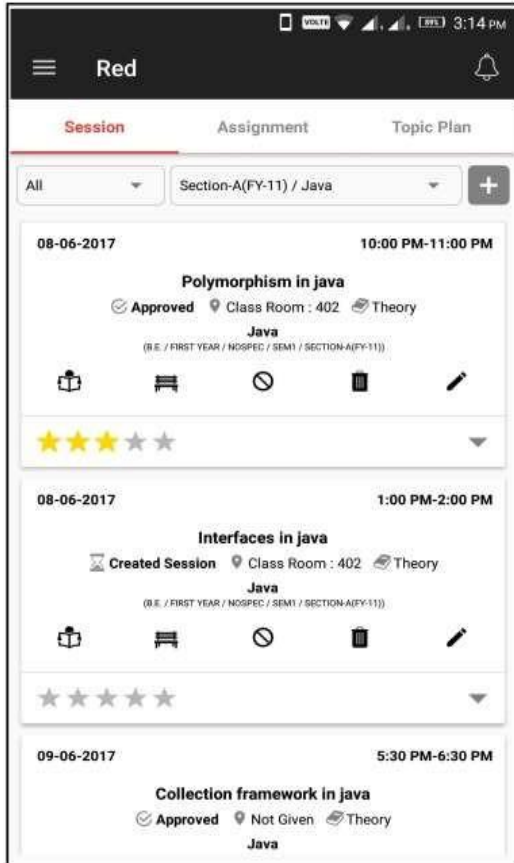
- E-Books
- E-Courses

# Learning Management System (LMS)





# M Campus: Campus Mobile Applications

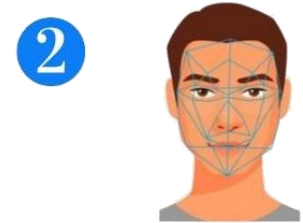


# Attendance Solution (Facial Recognition)

- Touchless attendance system post COVID-19 pandemic
- Required both Online and Classroom based lectures
- Faster & automated attendance process
- Automation and simplification of attendance process
- Avoid false / proxy attendance
- Centralized monitoring & reports on attendance



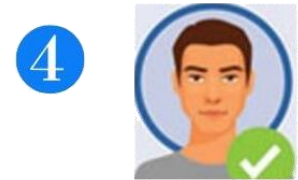
Capturing and scanning



Extracting Facial Data



Comparing database



Matching and Identifying

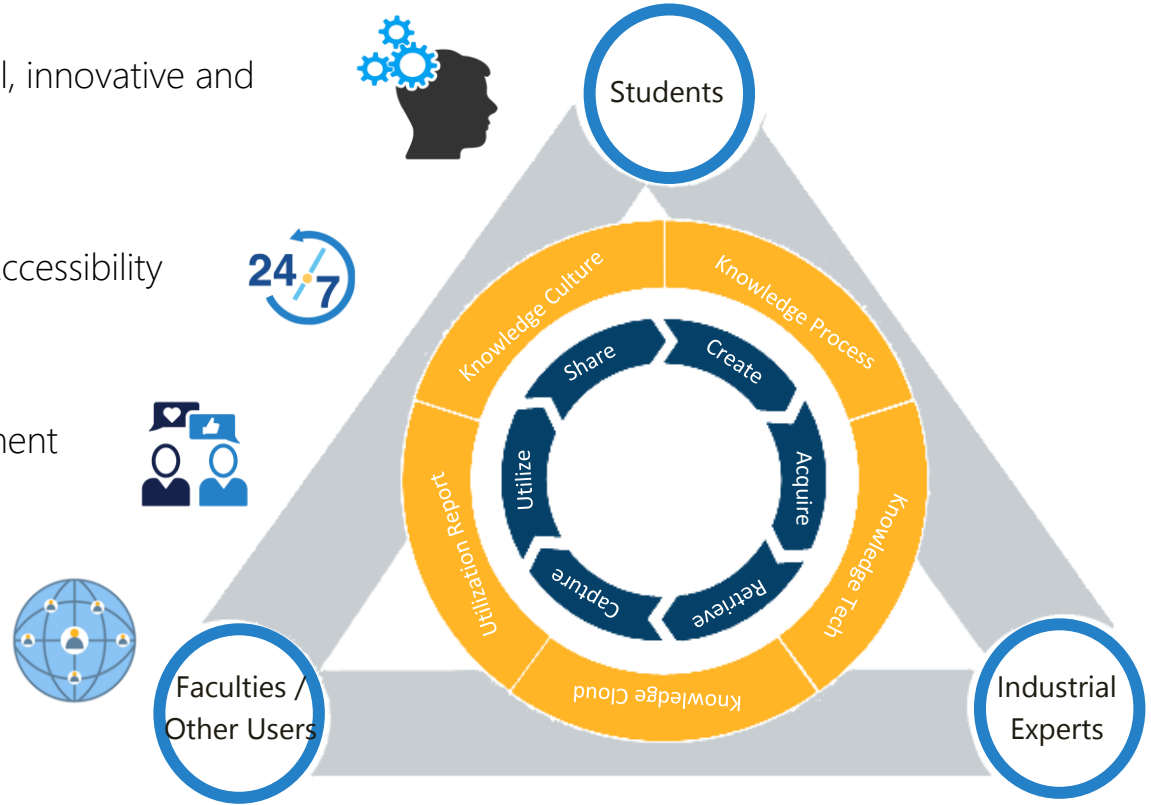
# Knowledge Forum

Promotes analytical, critical, innovative and analogical thinking

24/7 Anytime Anywhere Accessibility

Improves Student Engagement

Worldwide interaction



# Sample Screens

RED

Karan Meshram

karan@purestudy.com

Menu

User

Manage

Attendance

Holiday

Communication

Assignment

Feedback

Purestudy

Certificate

Other

14-07-2021

Search for Faculty, Section

2016-17

4

10

shram

Admin

Contact No

7856321452

Email Id

karan@purestudy.com

Personal Information

Name

: Karan Meshram

Date of Birth

: 2007-02-08

Gender

: Male

Contact

: 7856321452

Email

: yogeshrade@gmail.com

Alternate Email

: admin123@gmail.com

Date of Joining

: 2017-02-08

Address:

Mohan Nagar, Baner

Pin: 400110

City: pune

State: Maharashtra

About:

I always learn from mistake of others who take my advice.

Roles

Admin

Performance

	Current Year	Overall
Sessions	32	117
Average Attendance	70%	50%
Assignments	15	60
Knowledge Bits Posted	71	233
Online Test Conducted	3	18

Overall Feedback

@APT 2020 Confidential



My All

48

Search Subject

PHP  
Poly / Comp / SY / DIV A

12

JAVA  
Poly / Comp / SY / DIV A

5

C#  
Poly / Comp / SY / DIV A

4

RDBMS  
Poly / Comp / SY / DIV A

9

COBOL  
Poly / Comp / SY / DIV A

10

Lectures Topics

64%

Overall Rating

72%

Overall Attendance



1. Data abstraction, Database languages

by Yogesh Rade | Theory | Approved



Rating



Attendance

25/04/2017 - Tuesday | 12:00 PM - 12:30 PM | R103

2. Two/Three tier Architecture

by Yogesh Rade | Theory | Approved



Rating



Attendance

28/04/2017 - Friday | 12:00 PM - 12:30 PM | R103

3. Hierarchical Model

by Yogesh Rade | Theory | Approved



Rating



Attendance

02/05/2017 - Tuesday | 12:00 PM - 12:30 PM | R103

4. Enhanced ER Model

by Yogesh Rade | Theory | Approved



Rating



Attendance

05/05/2017 - Friday | 12:00 PM - 12:30 PM | R103

5. Normal forms: 1NF, 2NF, 3NF, BCNF

6. Data abstraction, Database languages



## Study of Operational Amplifiers

SEM III | Theory | Published on : 2017-05-06 18:34:39

**Topics :** Concept of input/output impedance, Input bias current, offset input voltage, slew rate, CMMR [Edit](#) 21



karishma patil

### Description



An operational amplifier (often op-amp or opamp) is a DC-coupled high-gain electronic voltage amplifier with a differential input and, usually, a single-ended output. ... Op-amps may be packaged as components or used as elements of more complex integrated circuits.

### References



Operational Amplifiers – G.B.Clayton (5th edition ) Newnes  
Operational Amplifiers Applications – G.B.Clayton

### Attachments

- [Concept of input/output impedance](#)
- [Input bias current](#)



### Instructions



Need to submit on time

### Suggestions

[Extra Assignment](#)

1. General understanding of topics:  
**Poor** - Need in depth assignment
2. Feedback Status  
**Poor** Timely feedback needed
3. Student likes status  
**Poor** Make assignment more participative



80

Submission : **40/50**  
Last Date : **2017-05-15**  
**10:30:48**



70

Feedback : **35/50**,  
Last Date : **2017-05-15**  
**10:30:48**

Student

Submit



Feedback



M / G

Remark

Action

Yogesh Rade



B

Good

[Edit](#)



Search for Faculty, Section



2016-17



Division: SRES/CS/FY/Div A

Suggestions



Search...

PHP

Poly / Comp / SY / DIV A

JAVA

Poly / Comp / SY / DIV A

C#

Poly / Comp / SY / DIV A

COBOL

Poly / Comp / SY / DIV A

RDBMS

Poly / Comp / SY / DIV A



Attendance



Feedback

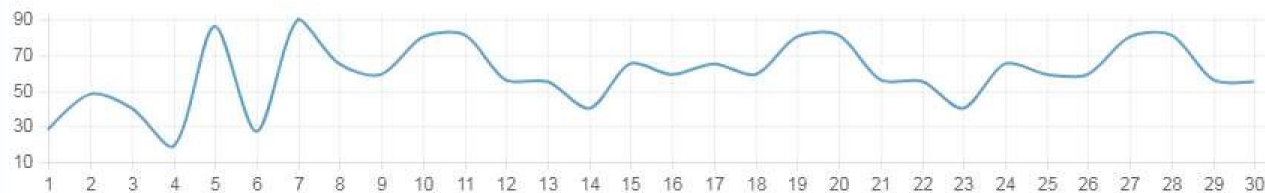


Grasping



Syllabus

More



Daily

75%

PHP



71%

DBMS



68%

Java



81%

C#



Student(3000)

Session (11)

Marked (4) Pending (5) Cancelled (3)



THANK YOU !