

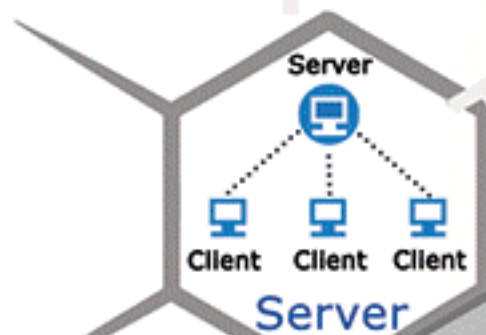


Digital Teacher.in

Empowering Schools & Promoting
Innovation through Digital Technology



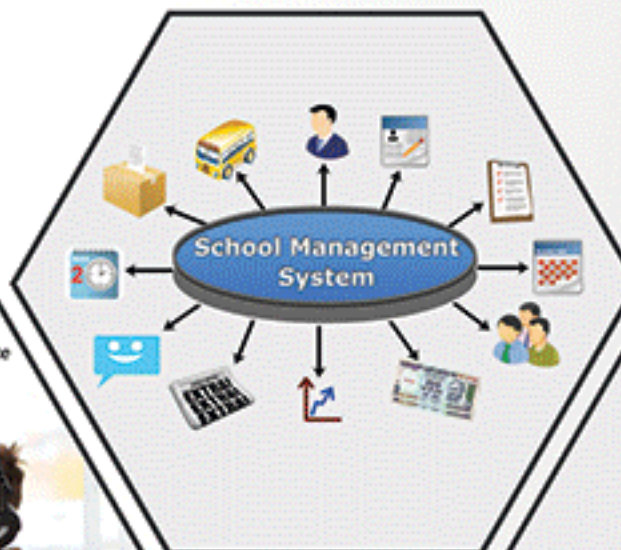
**CLASS KG TO X
SSC & CBSE**
(As per Latest Syllabus)



Digital Classroom



School Management
Software/ERP



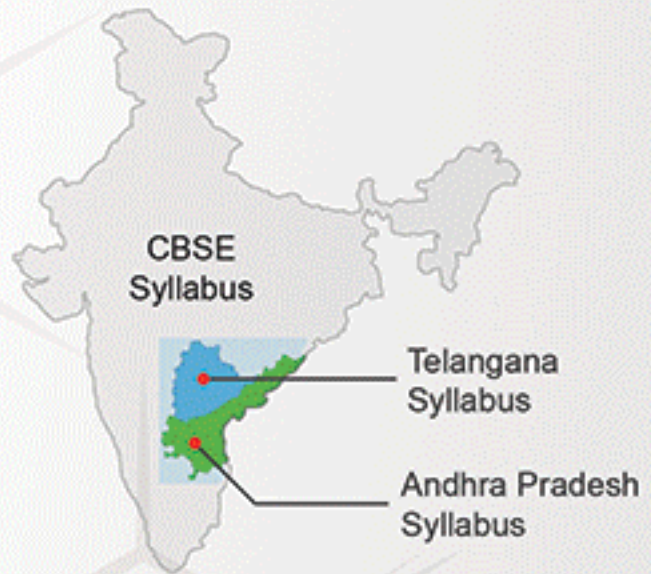
"Common European Framework of Reference
for Languages (CEFR):
learning, teaching, assessment"



English Language Lab



Online Examination System



Call Now

090000 90702, 040 65157705



CODE & PIXELS

What/Why is Digital Teacher?



- ✓ The new syllabus is introduced following the CCE guidelines to meet the growing demand of practical understanding in school education.
 - ✓ Code and Pixels is offering a new learning aid to schools.
 - ✓ The product is an apt tool for learning subject using educational technology.
 - ✓ While the conventional visual assets of the content are two dimensional in nature and are mere models of reality, the technology based content assets of this product are next to reality.
 - ✓ The subject content is presented in different types namely, the concepts, laws/principles, theory, derivation, numerical problems and applications. School administrators can get every worth of their penny spent on this product by noticing the apparent change in the behavior of their ward towards the subject.
 - ✓ The product will be useful to students and school teachers equally.
 - ✓ The models are simplified substitutes of reality and help us in understanding complex systems in a step-by-step manner.
 - ✓ In this context, animations are used to present the models associated with a concept along with their uses and applications.
 - ✓ The product can be used straightaway by the teachers without any prior training.
 - ✓ Lab activities of the textbook are presented in a step-by-step manner using simulation, where the intervention of the learner is called for, in the form of input to progress further.
- Digital teacher content helps to improve "Scientific Temper"
 - Digital teacher content helps to "INSPIRE"
 - Digital Teacher helps to eliminate "Maths Fobia"
 - Digital Teacher prepares individuals to become "Global Citizens"
 - Digital Teacher content in social science helps to mould "Ideal Citizenship"

How is it beneficial?

- ✦ From Edger Dale's Cone of learning experience, the percentage of learning associated with different activities like reading, seeing, hearing and their combinations are as follows:



S.No.	Learning Activity	Percentage of Learning
1.	Reading	10
2.	Watching	20
3.	Hearing	30
4.	Watching and Hearing	50
5.	Speaking and Writing (Lecture)	70
6.	Speaking and Doing (Lecture cum Demo)	90

- ✓ The product allows the teacher to instruct the subject in such a manner that learning takes place through seeing and hearing, lecture and demonstration method.
- ✓ In this way, optimal delivery of learning experience can be ensured by the instructor.
- ✓ Pause/Play buttons embedded in the product allow the teacher to use the product at his or her own pace.
- ✓ Owing to its user-friendly features, school administrators can adopt this product as the standard teaching tool of science in their institution.
- ✓ The unit plan document provided with the product not only serves as a planning tool for teachers, but also helps the administrators in assessing the pace of syllabus completion.
- ✓ The administrators can ensure parents that their wards are given quality education using digital technology.
- ✓ The product can be used straightaway by the faculty without any prior training.
- ✓ It can also be used as an effective self learning material in teaching – learning process.



Features of the product:

- ✦ The product presents a **Unit Plan** to the teachers which can either be adopted as it is or customized as per their needs in the planning stage of the instruction delivery.
- ✦ A template of the **Lesson Plan** is provided to break the instructions of a unit at class-to-class level on the lines of the unit plan.
- ✦ The pace of instruction delivery is placed in the hands of the teacher through the **Overview** section of the product which gives a bird's eye view of the subject matter of a unit.
- ✦ The content of the subject under **Instruction** section is divided into several types, namely, the "Concept Model/Activity", "Law/Principle", "Theory/Lab Activity", "Derivation/Numerical Problems" and "Uses/Applications", based on the nature of the science subject.
- ✦ Concepts and processes presented using animation and procedures are shown using simulations requiring intervention through simple navigation system.
- ✦ At the end of the syllabus coverage, important instructions are presented in a nutshell for the recapitulation of the learners in the **Summary** section.
- ✦ Important **Keywords** are listed with links to the slides where their corresponding concept is covered in detail.
- ✦ It is essential that the students remain mentally in touch with the subject matter taught in the classroom even after they leave the learning environment. For this reason, suggestions to the teachers on homework and project assignment for their students are provided under **Follow-up Work** section.
- ✦ The third aspect of teaching learning process is evaluation. On the same lines, the third section of the product is **Evaluation**. Here, a sample unit test paper covering the entire instructed unit is presented for the ease of the teacher and for mock assessment of the learner.
- ✦ A **Dash Board** to see history of the user.
- ✦ **Bookmarking** of the topics
- ✦ The content can be played on any System/Laptop, also on Android-based and Windows-based Smartphones.*
- ✦ The product is **SCORM** compliant and can be deployed on any **Learning Management System**.
- ✦ **Drawing Skills** section imparts the required drawing skills to the student.

TECHNICAL FEATURES OF THE PRODUCT

Elements of Instruction

1. Unit Plan/Lesson Plan/Unit Overview
2. Concepts/Model/Activity/Theory
3. Law/Principle/Lab Activity/Virtual lab
4. Derivations/ Numerical Problems
5. Real life Applications/uses
6. Summary/Assignments /Follow-ups
7. Assessments/Keywords

Media Features

- Rich Graphics
- Animation (2D and 3D)
- Images
- Videos
- Voice over
- Drawings, Diagrams
- Tables, Graphs, Text

Navigation Features

- User-Friendly Interface/Navigation
- Inbuilt Interactive Board/Search
- Index/Menu/Topics List/Play/Pause
- Audio/Mute/Next & Previous Topic/Reply
- Seek bar/Glossary/References/Notepad
- Master Page/Subject Home/Print/Book Mark

Content can be played on multiple platforms

Standalone Systems (Desktops, Laptops)
Encrypted CD Drive/USB Drive



Local Area Network,
Client-Server Environment



Tablet, Smart Phone

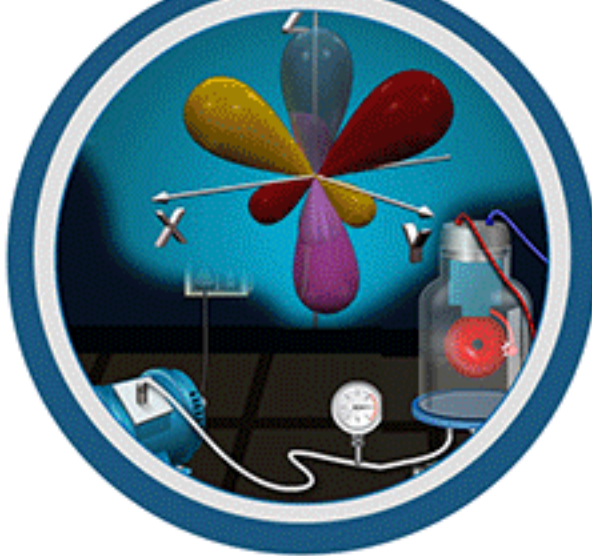


BIOLOGY

- Digital teacher content helps to improve "Scientific Temper"
- Theories are shown using illustration and animation. Facts of the subject are presented using Smart Art.
- The content of the theory is broken down into three subsections, namely, **Hypothesis/Assumptions, Scientific Explanation and Learning.**
- Activities are presented in a step-by-step approach with three subsections, namely, **Activity, Observation and Learning.**
- The concepts involving models are also presented using animation and illustration.
- Lab activities and follow-up activities/projects are presented.
- Flowcharts and Mind maps are also presented for better understanding.
- Activities to improve Manipulation (drawing) skills are also included.
- Effective reinforcement through feedback.



PHYSICAL SCIENCES



- Digital teacher content helps to "INSPIRE"
- The activities of the textbook are further divided into **Activity, Observation and Learning** sections to further aid the teacher to teach the concepts using scientific methods.
- The working of the universe is complex and incomprehensible when considered as it is. Science tries to understand nature using models and expresses its understanding in the scientific language of mathematics.
- The models are simplified substitutes of reality and help us in understanding complex systems in a step-by-step manner.
- In this context, animations are used to present the models associated with a concept along with their uses and applications.
- Theories of the subject are presented by specifying their components like **Assumptions/Hypothesis, Scientific Explanation and Predictions.**

TELUGU & HINDI

- Basic concepts of Hindi and Telugu are covered which are taught in KG and Pre-KG levels.
- Concepts includes, introduction of alphabets (Varnamala/varnmala), vowels (Acchulu/swarakshar) with examples, Consonants (Hallulu/Vyanjakshar) with examples Vathulu/mathrayen, Guninthaalu/barahkadi, Colors, Numbers, Vegetables, Flowers, Animals, Things in home, Vehicle names, Fruit names, People who help us, Days, Months, Directions, Body parts etc., are covered in both English and Hindi.



MATHEMATICS



- Digital Teacher helps to eliminate "Maths Fobia"
- The introduction of a lesson is presented using animations based on daily life scenarios.
- Mathematical formulae, Important mathematical signs and symbols.
- Theorems are divided further into **Given**, **Required to Prove**, **Construction**, **Proof** and **Conclusion** sections.
- Procedure of solving different types of problems from a lesson is presented in a step-by-step approach.
- The applications of the lesson learnt in daily life and in industry are presented at the end of the lesson.
- Enough number of problems are presented to the student for practicing on their own.
- Graphical and pictorial representation to visualize concepts clearly.
- Comfortable and simplified procedural steps in problem solving.
- Suggested follow-up activities to improve skills like speed and accuracy.
- "Do this", "Try this" sections to develop hands on experience and interest

- Digital Teacher prepares individuals to become "Global Citizens"
- Interesting language games and activities are provided.
- The subject matter is covered under **Content** element using animations.
- Vital language skills like listening, speaking, reading and writing are covered under **Communication** section using interesting activities.
- The extent of learning by the learner is gauged under **Constructive Components** section.
- The **Enrichment Activities** section contains activities which showcase the areas of applicability of the unit's content.
- Realtime conversations given under **Situational Conversation** in each section to enhance the communication skills of the students.
- Words, their meaning, Phonetic symbols and sounds are also included to improve vocabulary and pronunciation.

ENGLISH



SOCIAL STUDIES



- Digital Teacher content in social science helps to mould "Ideal Citizenship"
- Maps, tables and graphs about Geographic, Economic, Political, Historical aspects.
- Time line flowcharts to represent Historical events.
- Pie diagrams and data analysis tables in Economics.
- Mapping skills in Geography.
- Suggested Social science projects to develop enquiry and analysis skills.



Digital Teacher.in
Empowering Schools & Promoting
Innovation Through Digital Technology



10th
Class

9th
Class

8th
Class

7th
Class



6th
Class

5th
Class

4th
Class

3rd
Class

2nd
Class

1st
Class

UKG

LKG

Nursery

May 2018 Release (Version-6)
Developed as per state syllabus and being used successfully in more
than Serving 7000+ Schools across Telugu states.

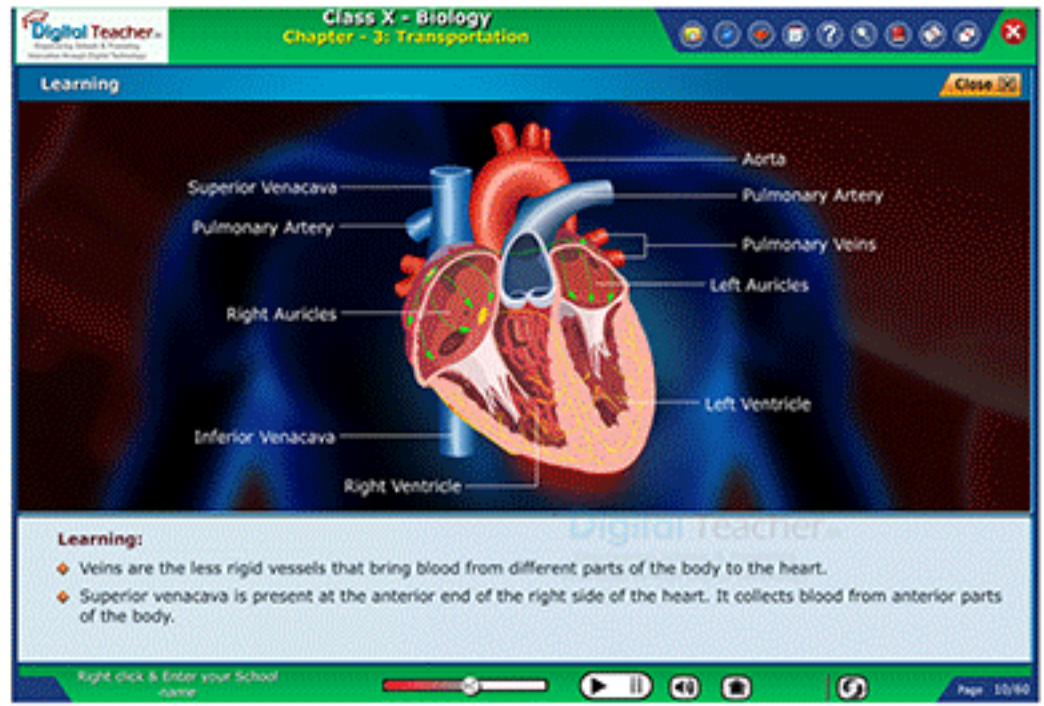
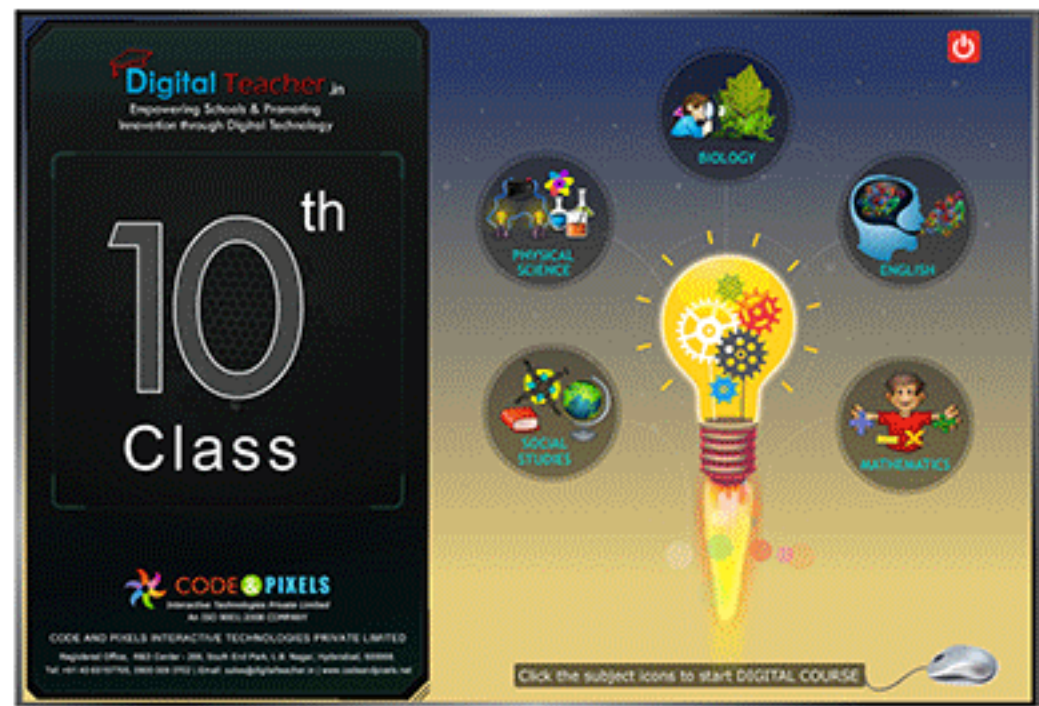
Click the Class icons to Start the DIGITAL COURSE



Reach us on:
040 - 6515 7705
090000 90702


CODE & PIXELS
Interactive Technologies Private Limited
An ISO 9001:2015 COMPANY

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Class X - English
Unit-2: Wit and Humour

C. The Brave Potter: The Brave Potter



The potter grabs a young tree, in order to control himself. Due to high speed, the whole tree got pulled out of the ground. Now the potter is carrying a tree on the horse. A sentry observed potter from the far distance and felt the person riding the horse must be the general who captured the tiger. The sentry spread this news among his army. Frightened by this, all the soldiers fled away. Even the king fled leaving a letter in the tent.

Right click & Enter your School Name

Class X - Biology
Chapter - 1: Nutrition

Photosynthesis → Light and Photosynthesis




Light and Photosynthesis:

- In an experiment with the aquatic plant, Hydrilla, he noticed that, in bright sunlight, small bubbles are formed around the green parts, while no bubbles were formed in the dark.

Right click & Enter your School Name


Class X - Physical Science
Chapter - 10: Electromagnetism

Activity 9 : Electromagnetic Induction - Faraday's Law



AC source

Force acts on the ring when AC is connected



DC source

No force acts on the ring when DC is connected

Faraday's Law of Electromagnetic Induction

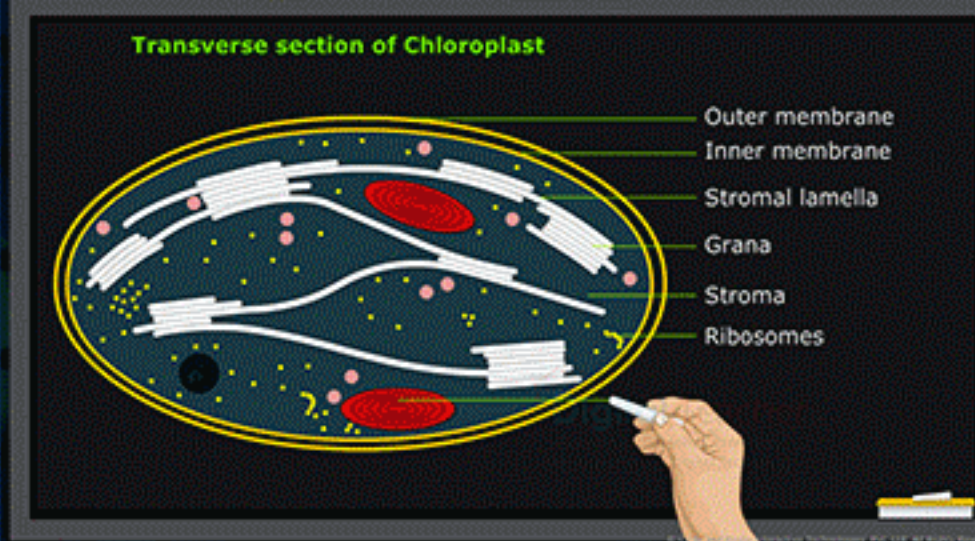
- In this case, we observed that the same ring lifts up and falls down immediately, when the wire is connected to DC power supply.
- Finally we learn that a force is acted upon the metal ring when AC power is supplied. The force is not present when the wire is connected to a DC supply source.

Right click & Enter your School Name

Class X - Biology
Chapter - 1: Nutrition

Drawing Skills → Transverse section of Chloroplast

Transverse section of Chloroplast




- Outer membrane
- Inner membrane
- Stromal lamella
- Grana
- Stroma
- Ribosomes

Right click & Enter your School Name


Class X - Mathematics
Chapter - 9: Tangents and Secants to a Circle

Introduction - We Know.

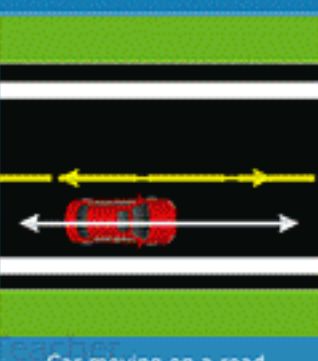


4-Road Junction

'O' is a intersection point.



Two rails of a train track



Car moving on a road

Do not intersect in a plane But they coincide with each other

Right click & Enter your School Name

Class X - Social Studies
Chapter - 3: India - Relief Features

Relief Division - The Indo-Gangetic Plain - The Central Part




The central part:

- It is called as the Ganga plain.
- It extends from the rivers Ghaghara to Teesta.
- It is spread across the states of Uttar Pradesh, Bihar, Haryana, Jharkhand and West Bengal.

Right click & Enter your School Name

Class X - Physical Science
Chapter - 2: Chemical Equations

Activity 3: Example-3 of Chemical Reactions - Initial Activity



- Take a few Zinc granules in a conical flask
- Add 5 ml of dilute hydrochloric acid into the flask

Right click & Enter your School Name

Class II - English
Chapter - 1: My Pet World

Sing the Poem



Right click & Enter your School Name



Digital Teacher™

English Language Lab

Developed as per the "CEFR (Common European Framework of Reference) and Cambridge English Teaching Framework under guidance of Cambridge English Trainer.



L istening



S peaking



R eading



W riting



P honetics



S oft Skills

435 Learning Sessions cover complete Language Lab

VOCABULARY

5000+ words (8 levels) with picture representation helps the students in learning new words.

GRAMMAR

Student can gain complete grammar knowledge.

INTONATION

Improving the knowledge of English by mastering variations in volume, pitch, speed and stress.

ASL

Model used for Assessment of speaking and listening skills to communicate, enrich and evaluate the learner's proficiency.

PHONETICS

The accent of different words made easy through phonetics.

Modulation: Modulation helps to achieve precision in pronunciation.

Syllabic division: Almost 3000+ syllabic words are used from Mono syllabic to Hexa syllabic.

KEY AREAS

Digital Teacher English Language Lab not only enhances vocabulary, but also focuses on the finer shades of language like grammar, pronunciation, intonation, modulation, phonetics, MTI and syllabic division. Learners learn without any fear or embarrassment which helps build their confidence and proficiency in the language.

PACE OF SPEECH

Pace is a key to effective communication, in which the speech is clearly understood and made interesting.

MTI

A focus on 'Mother Tongue Influence' (MTI) to overcome pronunciation differences of consonant sounds using mouth movements.

FLUENCY

In order to improve fluency Audio/Visual applications based on stress, intonation and modulation are practiced.

SPEECH SOUNDS

Pronunciation of consonants and vowel sounds made easy with correct syllabic division and stress patterns.

PRONUNCIATION

2000+ difficult words to recite for better pronunciation.

SOFT SKILLS

6 hours of various topics related to soft skills are covered, i.e., Self, Communication Skills, Presentation Skills, Group Discussion and Interview Skills.

What is Lab?

- Physics Lab or Biology Lab or any lab is a place where we do experiments and practice and learn things.
- What we are taught in theory classes are practiced in Lab provides hands-on experience.
- Lab faculty guides us in performing experiments or learning process. Lab faculty corrects us we do something wrong. Lab allows us to practice until we are successful.

Lab is a place where we have different tools and materials to practice and improve our skills.



What is Language Lab?

- Similarly, a language lab is a place where we learn language.
- The way we have tools, equipment, chemicals, and specimens in our science labs, in English language Lab, we have number of tools which teach and guide us to learn and practice language.
- Language lab is the software which enhances the skills of a student Language lab teaches English and enhances ability to Listen, Speak, Read and Write.
- We haven't taken any special training to speak and understand our 'mother tongue'.
- A child listens to his mother and understands and tries to repeat the words and mother corrects the words. Mother teaches words, vocabulary and child tries to speak exactly like a mother and child pronounces wrongly then mother corrects the child. In the process, the child learns.
- Listening and Speaking are the skills which require massive practice. Everyone associated with the child speaks mother tongue which makes child to understand faster.
- Whereas in India, English is second language. It is a foreign language. We need to learn the language. Not many around us and in our society and houses speak English. So we don't get ample opportunities to listen and speak and practice.
- To improve skill in any language one must listen and speak in an order and follow the system of that language.

Fear of Speaking:

- If we were born and brought up in a society where English is first language, then we would have been experts in speaking English naturally.
- Many students don't get an opportunity to speak English.
- Writing and speaking are two different skills.
- Writing is a slow process and the brain gets time to frame words while we write. But speaking is a fast process where we don't get much time to frame words. So we need to frame words very quick while we are speaking.
- That is possible only when we practice continuously.
- We fear that we may not speak correctly. So, we don't speak in English.
- We fear that people will laugh at us if we make mistake.
- For that many experts advise us to talk in front of a mirror.
- Yes. Partially that can be done. The person who is in front of the mirror is you. The person in the mirror may not laugh at your mistakes. He may not be able to correct your mistakes. He will not be able to guide you.





- So you need to talk to a person who wouldn't laugh at you and who corrects, guides, teaches and enhances your English speaking skills.
- English language lab does the same thing. It teaches you a sequential manner so that you improve your skill faster and accurately.
- English language lab is a virtual mentor to enhance English skills.

Why a Language lab? Benefits of Language Labs.

- Language labs are becoming highly valued in schools, colleges and universities because they offer students a structured e-learning environment that is successful and reliable.
- Listening, Speaking, Reading and Writing (LSRW) are the four skills which play an important role in the acquisition of language and learning.
- English Language Lab has had a tradition of helping learners improve their English, whether for work, personal enrichment or English for Academic Purposes (EAP).
- The language lab is a very useful tool that facilitates classroom engagement and interaction via computer-based exercises and activities to maximize language immersion.
- These labs provide a very different experience from the traditional system of teaching and learning languages, offering more advanced features and functionalities.

Why Digital Teacher English Language Lab?

- CEFR (Common European Framework of Reference) and Cambridge English Teaching Framework defines how to enhance skills in English.
- We have designed a lab as per their instructions and customized examples and scenarios as per the standards of learners in India
- This software is specifically designed for learners in India
- The system ensures a stress free environment with high quality digital content.
The software allows learners a private environment for self-paced practice.
- Keeping the importance of a teacher in mind, Digital teacher Language Lab provides teacher handbook and sessions planner.

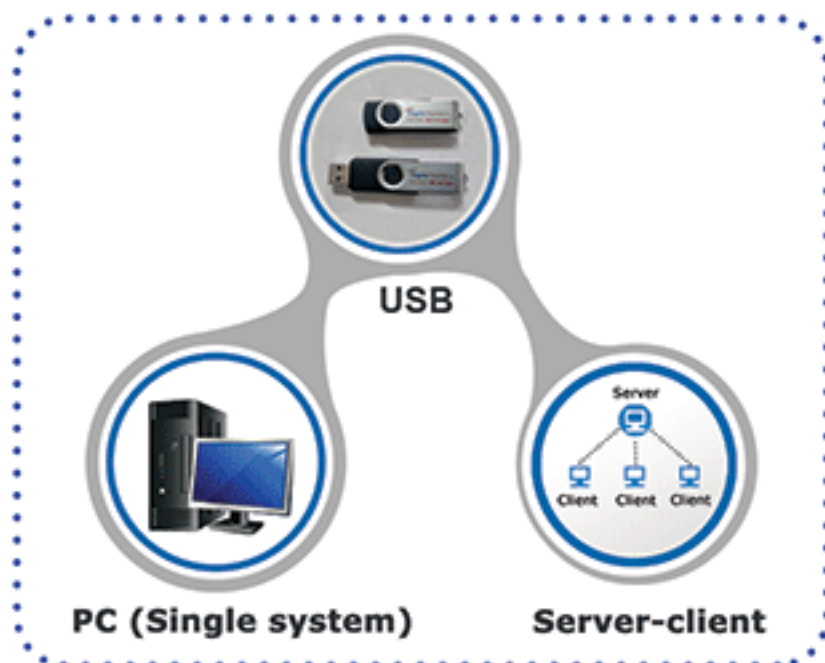
Common European Framework of Reference (CEFR)	
Basic	A1 & A2
Intermediate	B1 & B2
Mastery	C1 & C2

Blended Learning Solution

Blended learning methodology contains both ILT (Instructor Led Training) and CBT (Computer Based Training). In ILT, an Instructor interacts with the students in executing the activities whereas in CBT student can perform them alone

English Language Lab

Modes of Delivery / Distribution / Installation



1. Client-Server Technology:

Software will be installed in Server and Nodes (Systems) connected to server can access the software.

2. PC (Single system):

Software is installed in single system.

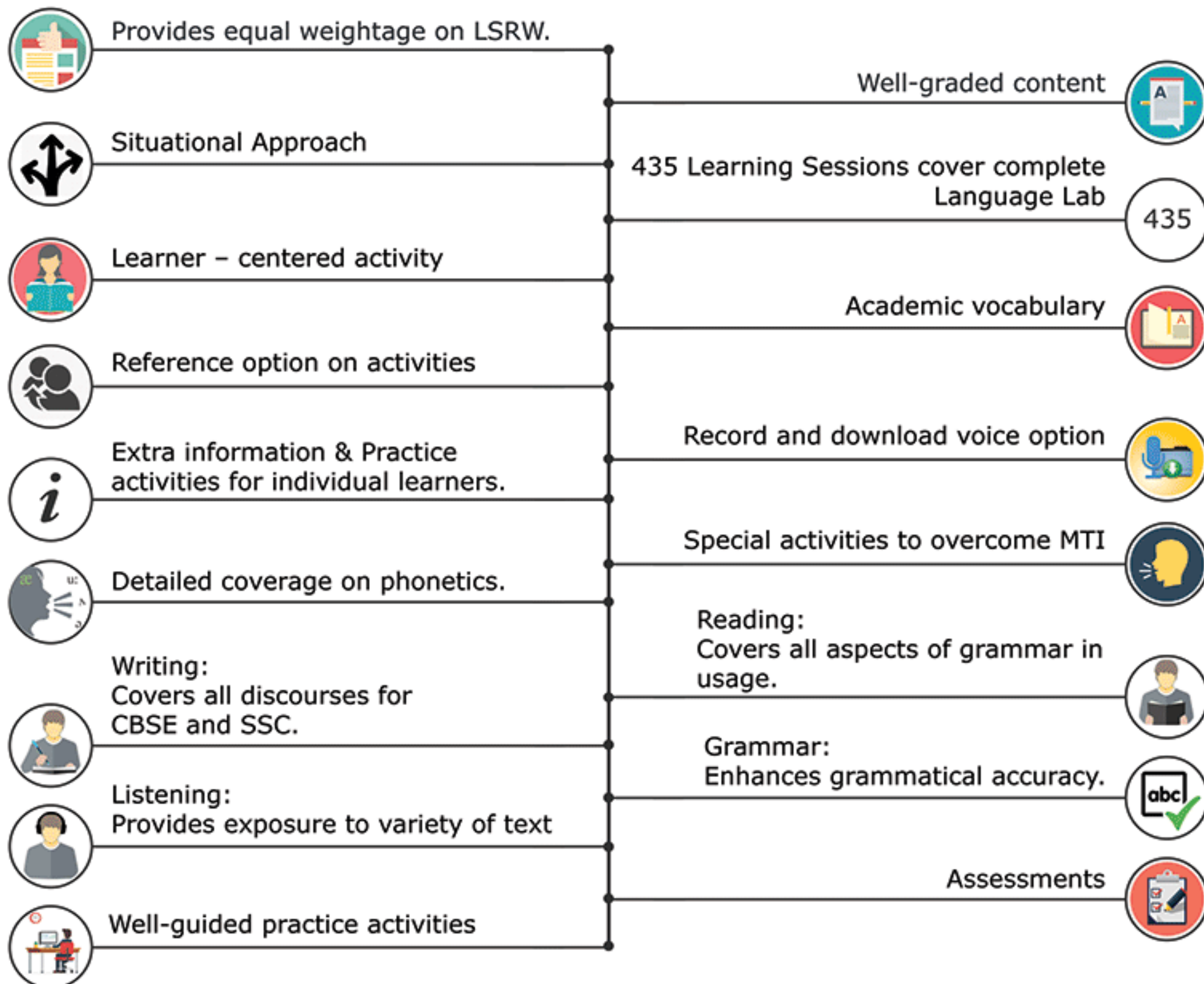
3. USB drive:

Software will be available in USB drive, and user can plug in USB and run software on any system.

- Technical support through a helpdesk
- The existing Computer Labs infrastructure can be used as Language Labs; no need for additional infrastructure
- Software works on ZERO clients and Thin clients

Hardware required : System + Headset with Mike

Features of English Language Lab





Manage Your School on Your Fingertips

DIGITAL TEACHER

SCHOOL MANAGEMENT SYSTEM / ERP

Why Softwares / ERP?

In today's world applications are the richest source of business value to the organization. The main goal of every business today is to maximize the time their employee spends on core business operations, but running away from application management can affect the profitability and productivity of the company.

Why to use a School Management System /ERP?

Like any company, a school is also an organization which has a lot of complex resources. The central data storage provides easy access to data within all departments, and removes the redundant administrative tasks of re-producing, presenting and sharing data between different systems when required.

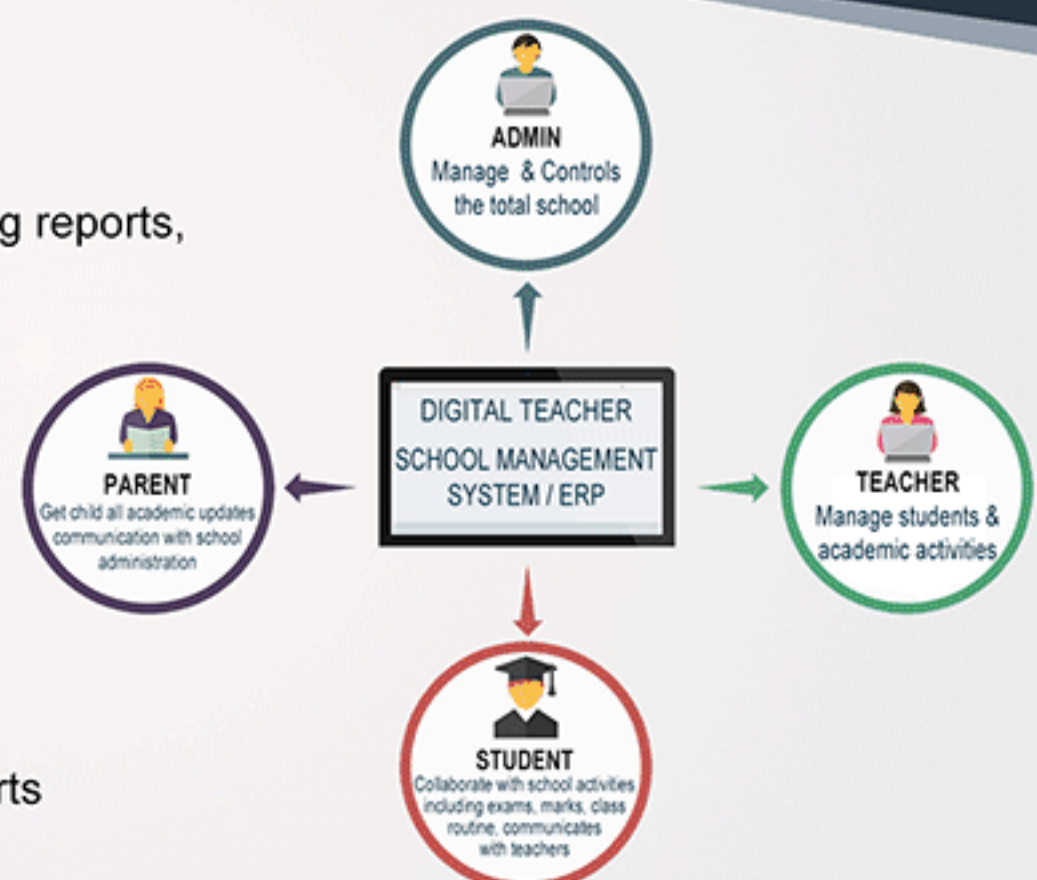
About School Management Software /ERP

Digital Teacher School Management System /ERP is designed to improve the way a school is managed through comprehensive functionality. It is an interactive platform for all users such as Students, Teachers, Parents and Management. It's a simple yet powerful integrated platform that connects all the departments of an institution with administrative features like Student admission, Time tables, Examination details, Student information, Reports generation, Result generation, Fee counter, Library, Accounts, etc.

The system predominantly helps educators to manage, analyse and report extensive data, whilst saving time by eliminating repeated data entry. The School Management System covers all aspects of educational business, including administrative, accounting and key academic activities.

- Automation of School Office Administration.
- Connects all Education Stakeholders Administrator, Teachers, Students and Parents.
- SMS integration for sending various SMS alerts.
- Fully fledged Library Management System.
- Fees Management – Printing fee receipts, generating reports, SMS parents for fees overdue.
- Time Table Management
- Accounts Management System.
- Student Attendance Management.
- Customized Report Generation
- Complaint Section / Query Section.
- Inventory Management System.
- Back Up facility for disaster management.
- Generates different types of reports graphs and charts
- Exam result, Student performance

Key Features of School Management System



Key Features of School Management System



School Administration

Maintenance of School Data
Student Attendance Management
Dormitory Maintenance
Password Protected

Fee Collection

Fee Collection
Easily print receipt
Date/Week/Month/Year Fee Reports
Notice Board



Account Management

Manage Expenses and Income
Custom Account Role
High Level of Data Security
Customised Accounting Reports

Reports/Admission Process

CCE Progress card
Bulk Progress cards
Hall tickets
Bulk Student Data upload
Promotion to next class
Manage and create fixed holidays



SMS Alert

SMS to parents related to:
Attendance / Marks / Fee dues, etc.
Bulk SMS sending
Individual SMS sending
Private messaging

School Transportation

Manage Vehicles Details
Maintain Route Details



Website: <https://digitalteachersms.in>

Login Details:

For Admin login:
User ID : admin
Password : 1234

For Teacher Login:
User ID : teacher
Password : 1234

For Student Login:
User ID : 16DTS00002
Password : 1234

QUESTION PAPER GENERATOR

Generate question Papers Instantly

Knowledge is having the right answer
Intelligence is asking right question



What is Question Paper Generator?

Question paper generator is a software, which prepares different types of Question papers based on CCE pattern or Regular pattern for the new Telugu States board syllabus.

Why Question Paper Generator?

Now-a-days, preparing an effective question paper is a complex, challenging job, whereas question paper generator makes the task much easier in 3 simple steps. All typical questions are formed by subject experts as per Academic standards.

To Whom is Question Paper Generator useful?

The teacher can prepare the question paper based on level of difficulty for various exams like Summative and formative exams and also instant tests. For greater flexibility, question papers are set according to User defined

Features

- Web based easy to use interface
- Secured login
- Separate interface to Telangana and Andhra Pradesh syllabus
- User defined and pre-defined patterns
- Thousands of questions in database
- Long answers / Short answers / Very Short answers / Multiple choice questions MS-Word out put format
- You can also edit after downloading
- Font size and pattern as defined by examination board
- You can generate pre-defined question paper in 2 clicks

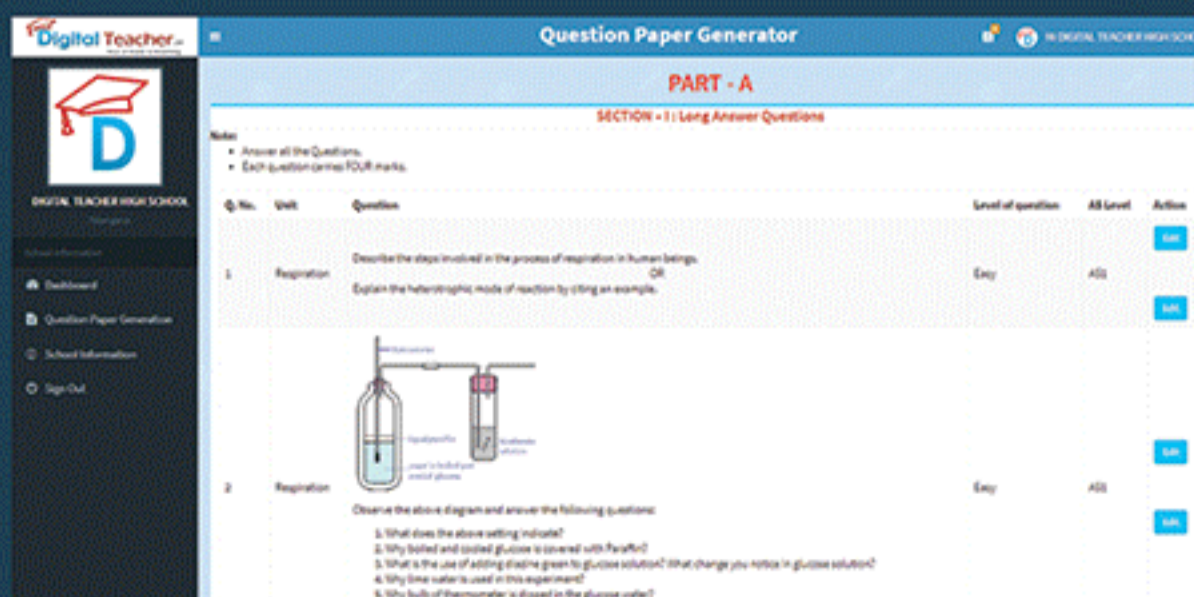
QUESTION PAPER GENERATOR

Separate interface to
Telangana and Andhra Pradesh



Secured login:
Enter User Id and Password

User defined Pattern



Step - 1

01

- Provide required information such as Class, Subject, Type of exam, Name of exam, sections, duration etc
- Select Unit(s), Type of question, level of question, AS level, Number of questions and marks.
- Click next to create preview of question paper based on the criteria provided

Step - 2

02

Select / Modify Question

Question paper preview is displayed

You can select/modify question(s) if required

13	Nutrition	Define the following: i. Chyme ii. Mastication iii. Emulsification	Easy	AS1	50%
14	Nutrition	A boy conducted an experiment on factors responsible for photosynthesis. He took a plant grown in a pot. He kept the potted plant in dark for 24 hours. Second day morning he fixed a black paper in the middle of selected leaf and kept the potted plant in sunlight for few hours. Write answers to the following questions: i. What factor he wants to know in photosynthesis? Why? ii. Is there any control in this experiment? Describe if it is. iii. Before conducting experiment why he kept the plant in dark for 24 hours. iv. Write different steps student conducting experiment to recognize the presence of carbohydrates.	Easy	AS2	50%
15	Nutrition	Describe how unicellular organisms obtain their nutrition.	Easy	AS1	50%
16	Nutrition	How is the small intestine designed to absorb digested food? Explain in detail.	Easy	AS1	50%
17	Nutrition	Draw a neatly labeled diagram of chloroplast found in leaf, and explain its role in photosynthesis.	Easy	AS2	50%
18	Nutrition	Into how many groups are Vitamins classified? What are they? Give two examples for each group.	Medium	AS2	50%
19	Nutrition	What do you understand about Priestley's experiment on air and photosynthesis?	Medium	AS2	50%
20	Nutrition	If you visit a doctor what doubts would you like to get clarified about pneumonia?	Easy	AS2	50%

Generate Question Paper

Step - 3

03

Generate Question Paper

- Click on "Generate Question Paper" button to generate question paper in Word format



DIGITAL TEACHER HIGH SCHOOL SUMMATIVE ASSESSMENT - I CLASS X - BIOLOGY (ENGLISH MEDIUM)

Time: 1 hrs 30 min. PART - A Max. Marks: 30

Instructions:

- 15 minutes allocated to read the question paper. 2.30 hours allocated to write answers.
- Part-A must be answered in a separate answer sheet.
- Students can take Part-A (Question Paper) with them.
- Map and Part-B (Bit Paper) should tag to the answer sheet and give them to the invigilator.

SECTION - I

Note: (4 X 4 = 16)
• Answer all the Questions.
• Each question carries FOUR marks.

1. What is the pathway taken by air in the respiratory system? Illustrate with the help of diagram.
OR
Explain the heterotrophic mode of nutrition by citing an example.

2.



Observe the above diagram and answer the following questions:

1. What does the above setup indicate?
2. Why boiled and cooled glucose is covered with Paraffin?
3. What is the use of adding diastase given to glucose solution? What change you notice in glucose solution?
4. Why lime water is used in this experiment?
5. Why bulb of thermometer is dipped in the glucose water?

OR

Define nutrition and explain the different modes of nutrition.

3. Draw a block diagram showing the steps in respiration.

OR

Explain the mechanism of gases exchange at the bronchiole level.

4. Explain the process of mechanism of breathing in human beings.

OR

Write the answers by observing the experiment performed at your school.



SECTION - II

Note: (6 X 2 = 12)
• Answer all the Questions.
• Each question carries TWO marks.

5. Explain the process of photosynthesis with the help of a chemical equation.
6. Draw a neatly labeled diagram of mitochondria.
7. What do you understand about Priestley's experiment on air and photosynthesis?
8. Into how many groups are Vitamins classified? What are they? Give two examples for each group.
9. Mention the causes and symptoms of Keshitalker disease in children.
10. Explain the classification of nutrition.

SECTION - III

Note: (10 X 1 = 10)
• Answer all the Questions.
• Each question carries ONE mark.

11. What process would you follow in your laboratory to study the presence of

Pre-defined Pattern

Question Paper Generator

School Name: DIGITAL TEACHER HIGH SCHOOL

Class - Subject: TE_CLASS X - BIOLOGY

Exam Pattern: Pre-defined

Part Type: PART - A

Exam Type: SUMMATIVE ASSESSMENT - I


Generate

Step - 1

01

- Provide required information such as Class and Subject

- Select pattern type as "Pre-defined"
- Select Part type i.e. Part A, Part B
- Select Exam
- Click next to create preview of question paper randomly generated from question bank
- Click on "Generate question paper" button to generate question paper

SECTION - II : Long Answer Questions				
Q. No.	Text	Question	Level of question	AS Level
14	Respiration	Describe the process of respiration and release of substances in plants. OR Explain the process of breathing in man.	Easy	AS1
15	Transpiration	After reading the lesson 'Transpiration', what precautions would you suggest to your sister about external? OR Explain how the transpiration of water takes place.	Easy	AS1
16	Nutrition	Explain how plants prepare their own food through the process of photosynthesis. OR Draw the steps of the human digestive system neatly with labels.	Easy	AS2
17	Nutrition	Write the answers by observing the experiment performed at your school.  i. Why black paper used in this experiment? ii. Which part turns blue black after experiment? iii. What does this experiment prove? iv. What is the importance of starch formation in photosynthesis? v. Why is the indicator used in this experiment called 'Benedict's' light green? OR Describe how water evaporates into the atmosphere from the plants.	Easy	AS2

Generate Question Paper

DIGITAL TEACHER HIGH SCHOOL
SUMMATIVE ASSESSMENT - I
CLASS X - BIOLOGY
(ENGLISH MEDIUM)

Time: 1 hrs 30 min. PART - A Max. Marks: 30

Instructions:


- 15 minutes allocated to read the question paper. 2.30 hours allocated to write answers.
- Part-A must be answered in a separate answer sheet.
- Students can take Part-A (Question Paper) with them.
- Map and Part-B (Bit Paper) should tag to the answer sheet and give them to the invigilator.

SECTION - I

Note: (4 X 4 = 16)
• Answer all the Questions.
• Each question carries FOUR marks.

1. Why is black paper used in this experiment?
2. How many chambers are there in our heart? Name them.
3. How are carbohydrates and lipids synthesized in plants?
4. What is the function of C.A. Yarrow in photosynthesis?
5. Prepare your own tabular column to get information about food deficiency diseases from a doctor.


Click "Generate Question Paper" button to generate Question paper



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Question Paper Generator

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School Information


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- Question Paper Generation
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- Sign Out

Create New Question Paper

Previous generated Question Papers

S. No.	Examination	Class	Subject	Part	No. of Sections	Marks	Date	Actions
1	Unit Test	TS_CLASS X	BIOLOGY	PART - A	3	40	26/07/2017	Action
2	SUMMATIVE ASSESSMENT - I	TS_CLASS X	BIOLOGY	PART - A	3	35	26/07/2017	Action
3	SUMMATIVE ASSESSMENT - I (Part - B)	TS_CLASS X	BIOLOGY	PART - B	1	5	25/07/2017	Action
4	SUMMATIVE ASSESSMENT - II (Part - B)	TS_CLASS X	BIOLOGY	PART - B	1	5	25/07/2017	Action
5	SUMMATIVE ASSESSMENT - I (Part - B)	TS_CLASS X	BIOLOGY	PART - B	1	5	24/07/2017	Action
6	SUMMATIVE ASSESSMENT - I	TS_CLASS X	BIOLOGY	PART - A	3	35	24/07/2017	Action
7	SUMMATIVE ASSESSMENT - I (Model Paper - 2)	TS_CLASS X	BIOLOGY	PART - A	3	35	21/07/2017	Action
8	SUMMATIVE ASSESSMENT - I (Model Paper - 1)	TS_CLASS X	BIOLOGY	PART - B	1	5	21/07/2017	Action


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School Information

School Name: DIGITAL TEACHER HIGH SCHOOL

Address | Phone No.: # 266, South end park, Hyderabad, 5000068.

Email Address: school@dt.com

Region: Telangana

License: From: 31/05/2017 To: 31/12/2017

Remaining Question Papers: 448

Change Password:

[Change Password](#)

Site: <https://dtqpg.in>

Login Details:

User ID : school@dt.com

Password : 1234

ONLINE EXAMINATION SYSTEM

and DATABASE of 10,000 MCQ ,T/F

With the development of the Internet technology, online examination has become more and more popular since it helps people save much energy and time.

It provides an efficient and effective way of teaching and learning. It is very much useful as it manages time by reducing lengthy process of conducting examination. Students can get instant results by automatic evaluation system. A Competitive atmosphere is created for the students by switching to this system. Beneficial for students to conduct a paperless examination.

DIGITAL TEACHER Online Examination System is the simplest-to-use web-based application for schools, colleges, university, coaching classes, training centres, certification agencies, recruitment firms to conduct timer-based, completely automated, paperless examinations.

CODE AND PIXELS is a pioneer in providing 'Online Examination Software' to leading educational institutes and universities which emerged as a very useful tool for students to prepare for no. of competitive exams. Today, almost all exams and recruitment tests are being conducted in online mode.

If a candidate is going to appear for exam in online format then he must get prepared in a similar environment.

DIGITAL TEACHER online exam software is the best solution to prepare for timer-based, objective-type (MCQ) exams. This solution has been implemented in many universities across the country.

DIGITAL TEACHER ONLINE EXAMINATION SYSTEM enables schools to author questions, create assessments, and schedule participants for various types of assessments including Preparation Test, Quizzes, Mock Tests and Exams.



Built-in question management, categorised as subjects, topics, sub-topics, difficulty level settings

Candidate / Student Management

Create, assign & publish exams for selected group of students

Exam / Test Management

Messaging

Get instant results on exam completion with certificate, explanations for questions & graphical analysis

Results & Analysis

Very easy to add, manage student database with

Built-in information management to get latest news, updates, shared articles

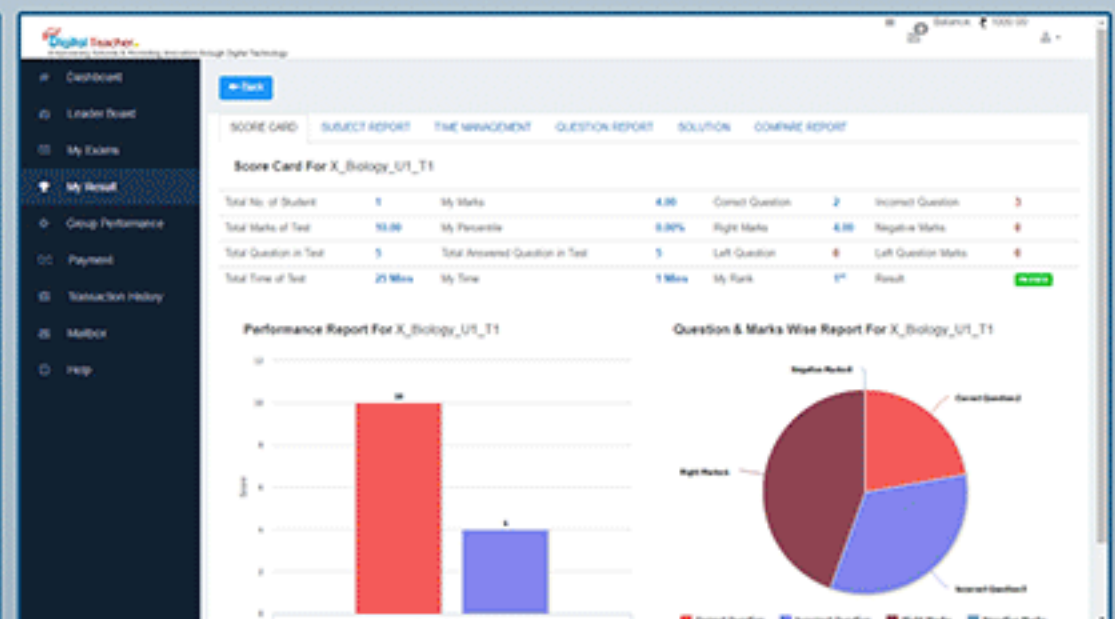
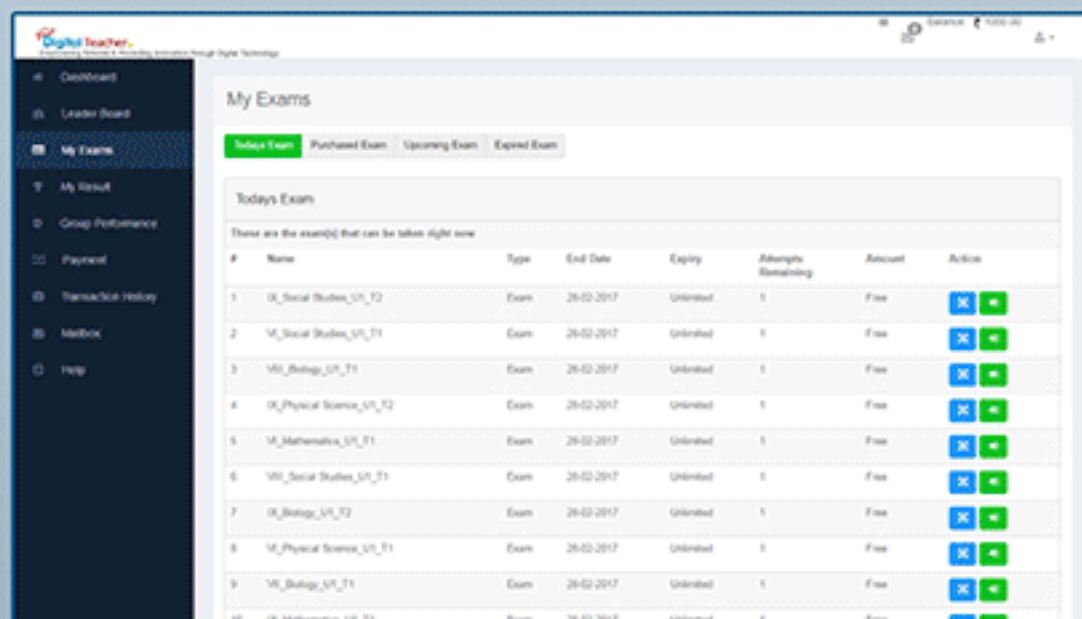
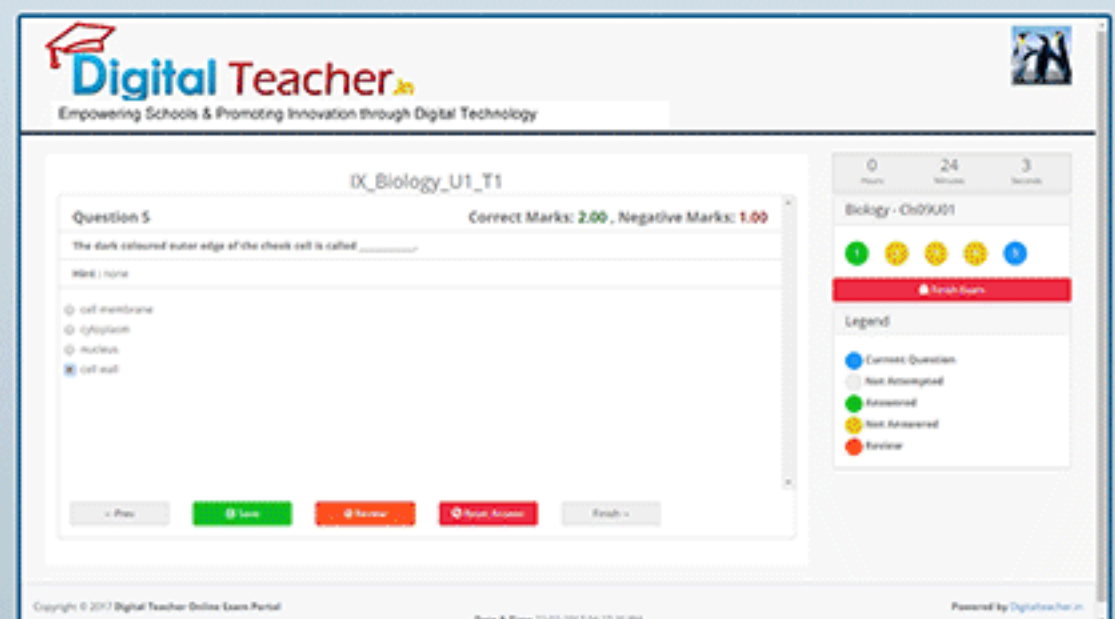
Question Bank

Advantages and Benefits of Online Examination System

Performance analysis and Result reporting system

1. Scorecard.
2. Group Ranking.
3. Group wise performance chart.
4. Time Management, Subject Report, Question Report, Solution, Compare Report.
5. Monthly wise performance and Exam Wise Performance.
6. Result and Pass certificate in PDF.

- ✔ Create, assign and publish exams for selected group of students.
- ✔ Instant results on exam completion.
- ✔ Fault tolerant, secure and scalable examination system.
- ✔ Shuffling of questions and the options for better practice
- ✔ Countdown timer to provide accurate start and end time.
- ✔ Reduces manual work, maintains accuracy and saves time
- ✔ Simplest-to-use & most user friendly interface.
- ✔ Easy-to-adopt & affordable customization.
- ✔ The performance of the Student can be easily checked.
- ✔ It can be used anywhere any time as it is a web based application.
- ✔ Built-in Question management, categorized as subjects, topics and difficulty level.
- ✔ Messaging system for latest updates and alerts.
- ✔ Management of student database using dedicated dashboard.



Demo credentials for Student login: **Online Exam Management System**

Site: <https://onlineexam.co>

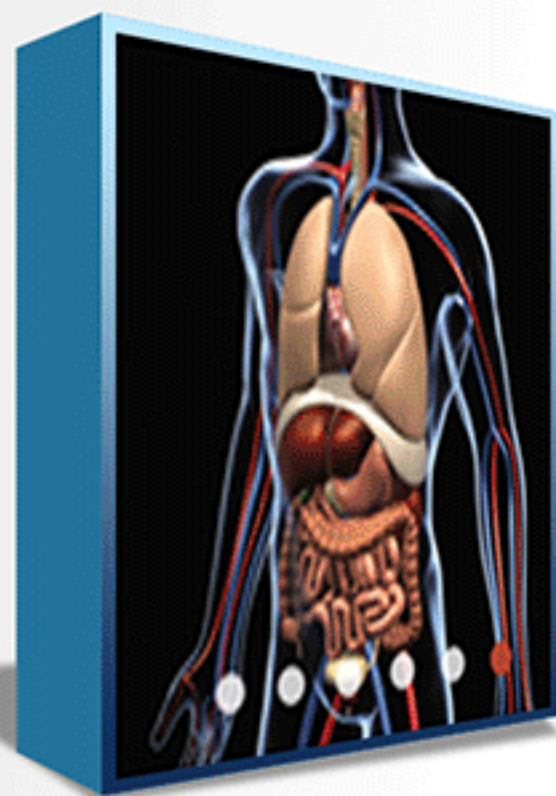
Email: test@codeandpixels.net

Password: **cnptest**

Human Anatomy

- Multimedia combines five basic elements of media into the learning environment: Text, Video, Sound, Graphics and Animation, thus providing a powerful new tool for education.
- All these elements are required to disseminate knowledge through Digital Content.
- Some concepts require real-time Images and Videos for better understanding. Some topics are better explained using animations. Animations are of 2 types, 2 dimensional (2D) and 3 dimensional (3D). Some concepts are better explained using 3D.
- In recent years, 3D entered our lives through TVs, Projectors, Monitors, and Computers etc.
- 3D technology is widely used in the field of education, as it commands the attention of the student.
- We have added 3D animations for better understanding and visualization of the imaginary concepts as per the suggestions of the Subject Matter Experts.

To start with, we have developed Human Anatomy 3D course.



Basics of Computers & IT

- It is a gadget-driven world. IT has entered our daily lives and has become an integral part of our life. Every day, we hear about many technologies and IT terminology i.e., Cloud computing, Memory, Android OS, Online, e-commerce, web chat, video calling, social network and so on in our life.
- Each topic is an ocean and there is no end for learning about each topic. Our attempt to develop this CBT is to introduce Information Technology terminology and Basics of computers to the students. Information Technology covers a broad spectrum of Hardware & Software solutions.
- This CBT is designed exclusively for the people who don't have familiarity about Computers and Information Technology. At the end of the course, you will not be able to get mastery about computers and IT but you will be well-informed and knowledgeable about Information Technology terminology and computer basics.
- We have tried to cover terminologies which we come across often in our day-to-day life.



Vocabulary Builder



- Researchers have stated that vocabulary deficiencies are a primary cause of academic failures. Research indicates that low levels of vocabulary can have an impact on reading and therefore, writing.
- These researchers profess that direct and explicit instruction of a set number of vocabulary words will improve academic success in all content areas.
- Learning 500 words each year may improve learning by as much as 10 to 30%.
- Have you ever noticed a film heroine whose mother tongue is not Telugu, speaking Telugu?
- Similarly collectors, where ever they get posted, learn the local language in a month's time. How is this possible? What is their secret of their speaking? How do they achieve this?
- How do they understand the language in just a few months and start talking fluently in a year?
- Whatever may be the language, vocabulary is very important. If you know 2000 words in any language, you understand what the others are talking. If we have a vocabulary of 5000 words, then we can speak fluently.
- Knowing the words is not enough. We need to keep using the words while speaking, where ever possible.
- This Vocabulary Builder tool has 5000 + Words which are used in our day-to-day life and can be used by anyone from a 5 year old kid to a 25 year old person.

Recently Introduced New Technologies

Technology is drastically changing. But education sector is unable to take advantages of Technology. We would like to bring technology to schools at affordable price. We are not only product development company but also company which supports implementing of technology in many organizations i.e., Banks, Defence, Railways and many Universities. We have decided to introduce technologies which enhances learning process. Our ultimate aim is to make knowledge transmission in joyful way.

We also want to supply technology at **affordable** rates. We are Launching following technologies soon.

These technologies are widely used in international schools of foreign countries. Universities have adopted these technologies quickly. All reputed universities in India are teaching using below mentioned technologies successfully.

Augmented Reality

Digital Teacher Augmented Reality App need to be installed in Smart Phone / Tablet. We will give you some black and white sketches / art / text / codes. When you scan on the code then 3D Animation related to that topic, pops-out and explains the topic.



Virtual Reality

Virtual Reality (VR) based content shall be provided for selected topics. Student need to use VR goggles and see the content. It gives realistic feeling to students and helps in memorizing the content easily. Google Virtual Reality Goggles are available for less than 50 Rupees.

Upcoming Technologies / Products

Game based Learning

We all know there are some learning outcomes when we play, and students learn faster and better with games. Parents and Teachers are putting a lot of efforts in improving learning outcomes of their kids through games. Also recent studies have proved that game-based learning is the best for our cognitive retention.



ABOUT THE COMPANY



CODE & PIXELS

Interactive Technologies Private Limited

Registered with: ISO 9001 : 2015 Quality Certified Company



Code and Pixels, an ISO 9001: 2015 company headquartered in Hyderabad employs the best talent in the industry with a range of specializations including Subject Matter Experts, Instructional Designers, Multimedia Specialists, Software Professionals and Consultants.

We are a specialist e-learning company, providing Simulation & Training Solutions, Content Engineering Services, Consultancy Services and IT Services to the Industry.

BFSI, Defence and Government Organizations



State Bank Of India



SBI Life
INSURANCE
With Us. You're Sure



बैंक ऑफ़ बड़ौदा
Bank of Baroda



Digital India
Power To Empower



Sardar Vallabhbhai Patel
National Police Academy



Rural Development
of AP

Partnering with the best to deliver exceptional quality & value

Universities



सत्यमेव जयते
NMEICT



UGC
University Grants Commission



Jawaharlal Nehru
University



University of Mumbai



Sri Ramachandra
University



Avinashilingam
University



National Institute
of Nutrition



Tilak Maharashtra
University



University of Madras



University of Calcutta



Anna University



Globarena
Transforming Talent



University of
Mysore



Prof. Jayashankar
Agricultural University



University of
Hyderabad



SNDT Women's
University



Indian Statistical
Institute



Gujarat University



University of Jammu



The Energy and
Resources Institute



APTARA



Since 1907



integrä




Continues to serve & grow with the Nation!!!





VISIT www.digitalteacher.in For the demo of
one complete unit of all the subjects
(Class KG, I, II, III, IV, V, VI, VII, VIII, IX, and X).


You  Digital Teacher demo is also available in You tube.

Features of the Product

Digital Teacher

Other Products


Digital Classroom

 Content developed as per new syllabus
Percentage of exactness as per new syllabus

100%

40-50 %


English Language Lab

 Audio and Text, Animations and Graphics,
Simulations, Labs

Yes

Yes


School Management Software/ERP

 Keyword Search, Play - Pause, Mute, Menu,
Glossary, Navigation Seek Bar, Book Mark,
Print, Student Learning History/Reports

Yes

Yes

Online Examination System

 Inbuilt Interactive White-Board
(No need to purchase whiteboard)

Yes


No

Question Paper Generator

 User interface and installation process


Simple-Plug & play

Lengthy installation
process

 Drawing skills imparting, Assessments

Yes

No

 Mind maps (unit, topic level)


Yes

No

 Follow-up works, Science Projects

Yes

No

 Teacher Segment (Unit Plan, Lesson Plan)

Yes

No

- **Digital Teacher** is acknowledged as one of the experts for review and evolution of e-content by ICT and NCERT
- Content is reviewed and vetted by NCERT approved e-content reviewers and SCERT(retd.) professors.

