

# Bidimensional Appraisal of Online Examination Platforms between Pangasinan University, Philippines and Marian College Kuttikkanam, India

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**ABSTRACT:** The world is shifting to incipient modes in every aspect, at every second but the educational system in most parts of the world remains frangible and doesn't show any considerable change. The lag engendered by the system is truly having a negative effect on human capital. Human Capital in most regions of the world, especially in India shows that it is not the one to fortify the present Industrial Revolution and thereby stimulates unemployment and underemployment. Inputs or outputs expected from the system of the online examination must not be intended to neutralize or reduce the capacity-building abilities and scientific outcomes of education but must liberate young people to take programming foresight and 'outsight' levels and must definitely lead to 'next' level gains. (Diagram 2, Policy Analytics Ladder). The present systems must be redesigned and reframed. The contribution of youth towards every economy is being forecasted with great expectations of transforming a country from underdeveloped to developing and finally to a developed one. They identify with and act as conductors or 'mobilisers' in person, online and in public and private spheres. There is an untapped role that adolescent people may identify with in terms of communicating the message of SDGs (Sustainable Development Goals), contributing towards their monitoring and holding regimes to account, as well as mobilizing others to contribute as active denizens. Bi-dimensional appraisal on the present online examination platforms to address the efficiency of the online examination system is being carried out with this intent.

**Keywords:** Online Examination Platforms, Moodle, Wondershare, Functioning, Interfaces, Various attributes of the system.

## I. INTRODUCTION

Generally, people agnize the paramountcy of the educational system, especially examination. Goal 4 of Sustainable Development Goals which "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" and set out several targets that aim to potentiate the youth in terms of not only peculiar to its expected outcomes but plausible out-turn in economic and political participation and health outcomes additionally. While substantial headways have been made in some of these areas, consequential dissident factors still subsist with reverence to the system. The initiatives often do not plenary identify or support the emerging roles that adolescent puerile people self define. While adolescent women and men often want to be peer educators, some additionally express an aspiration to go far beyond this. For them, there must be enough space to bring about the transmutation that they can execute on the desired sectors that they are tempted to. The youth may want to be educators; or bellwethers engaged in transmuted negative convivial norms; or denizens with status, striving to truncate inequality and gregarious differences within their broader and intergenerational convivial networks, which may include parents, community bellwethers, project staff and regimes.

This calls for the need to explore and acknowledge, at the commencement of any initiative, how puerile people want to contribute in terms of their roles and how these may be redefined over time. Whether the students are from the best of small towns or from the big city, living the

<sup>1</sup> "Education – United Nations Sustainable Development."

<https://www.un.org/sustainabledevelopment/education/>. Accessed 21 Jul. 2020.

online education system performs with the friendly platform of 'equality' like the Kendall Square, known as <sup>2</sup>'the most innovative square mile on the planet'. Students will have the opportunity to network and engage with people from any corners of the world through the system. <sup>3</sup>Building a broad network of professional relationships early in your career can be incredibly valuable as you navigate the workforce. Not only are many of today's jobs filled as a result of professional connections, but frequently interacting with those within your field or complementary fields can spark new ideas and allow you to learn from the experiences of others. While considering Moodle and Wondershare; the two different platforms which are famous and distinguishable among its rivals, the evaluation on the appraisal of the platforms in common should happen with the view of having an international outcome, without the expectation of microscopy analysis but a fair appraisal in general about the platforms of the online examination system.

#### MOODLE

<sup>4</sup>Moodle (Modular Object Oriented Dynamic Learning) as a learning platform can hone the existing learning environs through its umpteen unique features. Moodle has a wide variety of standard and innovative features such as calendar, Grade book, etc. Nowadays, Moodle is a progressing virtual learning environment that has a large number of users, and it is used in different fields such as education, training, development and also in business. Moodle users have the facility of Plug-ins. These help to broaden the features of this online platform. Plug-ins are provided in the Moodle plug-ins directory. There are 1,619 plug-ins available for Moodle with over 380,400 fresh downloads.

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<sup>2</sup> "Kendall Square Initiative - MIT."  
<https://kendallsquare.mit.edu/>. Accessed 21 Jul. 2020.

<sup>3</sup> "Networking Online: 7 Tips for Online Students | Northeastern ...." 24 Apr. 2020,  
<https://www.northeastern.edu/graduate/blog/networking-for-online-learners/>. Accessed 21 Jul. 2020.

<sup>4</sup> "Moodle: Online Learning with the World's Most Popular LMS."  
<https://moodle.com/>.

#### WONDERSHARE

<sup>5</sup>Wondershare Technology is a key member of the National Orchestrating Software Enterprises and an ecumenical bellwether in application software development. They are having users in over 150 countries. Wondershare is committed to providing software that brings simplicity to people's lives. This commitment has made it an industry bellwether. They have research and development centers in Shenzhen and Tokyo and marketing branches in Tokyo and Vancouver. Venerated institutions such as Sino - Sapience and IDG are among their investors. They have fortified expeditious magnification through dedication to customers and proudly offer Multi-language Live Support. Wondershare has built a community predicated on innovative thinking and creative solutions, thereby making interactions with technology simple and paramount.

#### Significance of the study

System fails! There is no apt system to support every aspect. So it is better to evaluate its efficiency and to chart out how the system works to ensure that corrective actions are taken to suit with every phase. Better harnessing of the potential of the students is expected through the system, than what happens in Paper-based tests. Therefore, the evaluation based on such circumstances and also to identify the trend is being considered as the next best practice. The online practices and the examination system thus recommend it to be the future wind or they can also be certainly redesigned to be the future hurricane.

#### Statement of the problem

The belief that the system is keeping the right track is the expectation. But the question of the quality of 'new' systems needs to be evaluated. The facilitation of an online future examination system is considered promising, but its real aspects needs to be reflected and evaluated so as to make it foolproof. Paper-based tests are often called the whiteboard which obnubilates the abilities of the students and limits their unexpected contributions. Hence, it is of supreme importance to evaluate whether this 'new' is on track for catering the future needs and aspirations of the academia.

#### Objectives of the study

1. To evaluate the functioning of the new online system

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<sup>5</sup> "Wondershare."  
<https://www.wondershare.com/>. Accessed 21 Jul. 2020.

- To measure the effectiveness of online examination platforms in both the universities by considering the commerce and management students.

## II. RESEARCH METHODOLOGY

The research commenced with a desk review of pertinent literature and of documents available. The overall approach was then quantitative, with an accentuation on participatory implements that would sanction the research team to accumulate information from a range of stakeholders and most categorically students of Marian College Kuttikkanam (Autonomous) and Pangasinan University, Philippines. Broadly, the researchers took responsibility for drafting and leading the research design. This included an online collection of data, its unification, interpretation and representation in an appropriate format suiting to purpose and thereby to draw meaningful conclusions.

## III. REVIEW OF LITERATURE

**Dipali Rangat, Preeti Singh, Sahera Jamadar, Shruti Salunke (2018):** The study concluded the usage of different security systems in the online examination. They have come to the result that the problems can be solved by introducing new security systems using biometrics, we can identify the student’s true identity by analyzing digital signatures or by fingerprint mechanism and also by providing web cameras in the examination hall. Although web cameras sometimes fail, if a candidate is giving an exam and facing downwards, Iris recognition and face recognition must be used. They concluded by mentioning that no mechanism is ideal. Each mechanism has its own pros and cons.

**Kore Tejaswini M, Kolge Shivani S, Kumbhar Amay D, Naik Laxman (2015):** The study was regarding an online examination system. It is very useful for an Educational Institute, the organization and Company to test its candidates continuously for their mutual development. Many systems are used for conducting Multiple Choice Questions (MCQs) and Subjective Type Questions. This helps to conduct exams regularly as well as for surprise tests and provides immediate results saving the valuable time of faculty members to evaluate the papers and prepare mark sheets.

**Rashad Et. Al. (2010):** He proposed a web-based online examination system called Exam Management System (EMS). EMS manages the examination and auto-grading for student exams and supports conducting exams.

**Guzman and Conejo (2005):** He proposed an online examination system called System of Intelligent Evaluation using Tests for Tele-education (SIETTE). SIETE is a web-based environment to generate and construct adaptive tests. It can be used for instructional objectives, via combining adaptive student self-assessment test questions with hints and feedback. SIETE supports secure logins and portability features.

## IV. DATA ANALYSIS AND INTERPRETATIONS

### 1. Program of Study

Table 1.1 Showing Program of Study of the respondents

Program of Study	No. of respondents	Percentage
Commerce	34	49
Management	36	51
<b>TOTAL</b>	<b>70</b>	<b>100</b>

(Source: Primary Data)



Figure 1.1 Showing Program of Study of the respondents

**Inference:** From the above it can be inferred that respondents are classified on the basis of the Program of Study. Commerce and Management formed almost equal halves, with management with a very slight upper margin.

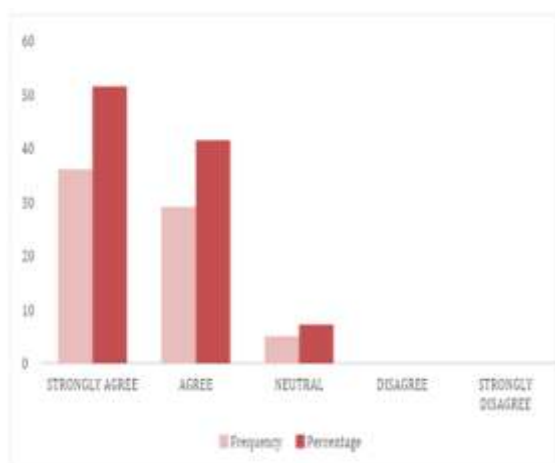
### 2. Functioning of the Online Examination System

Table 2.1 Showing Functioning of the Online Examination System

Choices	No. of respondents	Percentage
Strongly agree	36	51.42

Agree	29	41.42
Neutral	5	7.14
Disagree	0	0
Strongly Disagree	0	0
<b>TOTAL</b>	<b>70</b>	<b>100</b>

(Source: Primary Data)



**Figure 2.1** Showing Functioning of the Online Examination System

**Inference:** It is very evident from the above table and figure that 51.42 percent of respondents strongly Agree that the functioning of the online examination system is clear and smooth whereas 41.42 percentage agree with the statement and only a minimal 7.14 percentage of respondents have chosen neither yes or no. None of the respondents disagree or strongly disagree with the statement.

**3. Screen layout and window design of the online examination system is appropriate**

**4. Online examination system Interface**

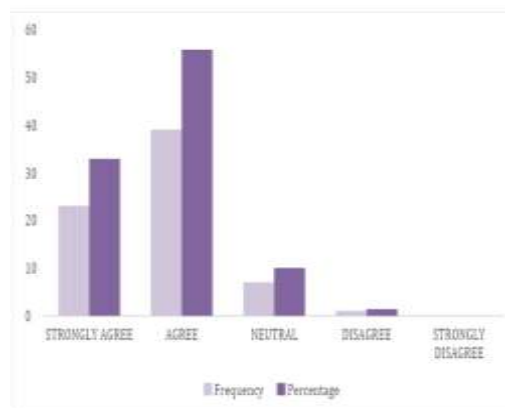
**Table 4.1** showing online examination system interface

Statements	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Weighted Average
The overall interface operation method is easy and appropriate	36 (180)	32 (128)	2 (6)	0 (0)	0 (0)	4.48 (314)
Login interface is clear and easy to	25 (125)	41 (164)	4 (12)	0 (0)	0 (0)	4.3 (301)

**Table 3.1** Showing screen layout and window design of the online examination system

Choices	No. of respondents	Percentage
Strongly agree	23	32.85
Agree	39	55.71
Neutral	7	10
Disagree	1	1.42
Strongly Disagree	0	0
<b>TOTAL</b>	<b>70</b>	<b>100</b>

(Source: Primary Data)



**Figure 3.1** Showing Screen layout and window design of the online examination system

**Inference:** It is evident that 32.85 percent of respondents strongly agree that the functioning of the online examination system is appropriate, 55.71 percentage agree and 10 percentage haven't chosen an option and only 1.42 disagreed with the statement.

operate						
Login interface design is appropriate	24	38	8	0	0	4.22
	(120)	(152)	(24)	(0)	(0)	(296)
Register interface is clear and easy to operate	31	32	5	2	0	4.31
	(155)	(128)	(15)	(4)	(0)	(302)
Register interface design is appropriate	23	39	5	1	2	4.14
	(115)	(156)	(15)	(2)	(2)	(290)

(Source: Primary data)

**Inference:** It can be inferred that respondents strongly agree with the fact that the overall interface operation of the online examination system is easy and also strongly agree that login

interface is easy to operate and its design is appropriate. Majority of the respondents strongly agree that the register interface design is easy to operate and its design is appropriate.

### 5. Online examination system Interface

Table 5.1 showing online examination system interface

Statements	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Weighted Average
The overall interface operation method is easy and appropriate	36	32	2	0	0	4.48
	(180)	(128)	(6)	(0)	(0)	(314)
Login interface is clear and easy to operate	25	41	4	0	0	4.3
	(125)	(164)	(12)	(0)	(0)	(301)
Login interface design is appropriate	24	38	8	0	0	4.22
	(120)	(152)	(24)	(0)	(0)	(296)
Register interface is clear and easy to operate	31	32	5	2	0	4.31
	(155)	(128)	(15)	(4)	(0)	(302)
Register interface design is appropriate	23	39	5	1	2	4.14
	(115)	(156)	(15)	(2)	(2)	(290)

Source: Primary data

**Inference:** Majority of the respondents on the basis of their opinion towards the functioning of the past exam result interface strongly agree that the overall past exam result interface is clear and easy to operate. They also strongly agreed that the past exam result design is easy and is appropriate and

that the statistical evaluation of the interface is easy to operate. Its design is appropriate and also the majority of the respondents strongly agree that there is high authenticity of exam result and exam result interface design is easy to operate and its design is appropriate.



6. Help page interface of the online examination system

Table 6.1 Help page interface of the online examination system

Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Weighted average
Help page interface is design is clear and easy to operate	26	32	8	2	2	4.11
	(130)	(128)	(24)	(4)	(2)	(288)
Help page interface is design is appropriate	16	40	8	4	2	3.91
	(80)	(160)	(24)	(8)	(2)	(274)

(Source: Primary data)

**Inference:** From the above, on the basis of their opinion towards the functioning of the help page interface of the online examination system. Majority of the respondents strongly agree that the overall help page interface design is clear and easy to operate and they also strongly agree that the help page interface design is appropriate.

V. FINDINGS OF THE STUDY

1. Most of the respondents were slaked with the online examination system.
2. More or less an equal number of the respondents are pursuing their studies in Management and Commerce subjects.
3. More than a majority of the respondents strongly concur that the functioning of the online examination system is pellucid and smooth. None of the respondents have an opinion that the functioning of the online examination system is not smooth.
4. Large numbers of respondents agree with the statement that the screen layout and window design of the online examination system is appropriate.
5. Majority of the respondents strongly agree that the overall interface operation of the online examination system is easy and is appropriate, apart from agreeing that there is high authenticity of exam results.
6. The majority of the respondents strongly agree that the overall help page interface design is clear and easy to operate and they also strongly agree that the help page interface design is appropriate.

VI. SUGGESTION

1. The online examination system should adopt changes to accommodate sundry subjects so that faculties of science streams can efficiently utilize the online examination system.
2. Since online examination systems provide a variety of question types that can be included while taking quizzes and exams, faculty must be trained for the extensive utilization of the system.
3. An Android/ iOS application of the online examination system is worth more efficacious so that immensely colossal number of students can be accommodated when the lab facilities are impecunious.
4. There must be an option for grading the essay question manually also for better evaluation.

VII. CONCLUSION

‘Bi-dimensional Appraisal on Online Examination Platforms by considering Pangasinan University, Philippines and Marian College Kuttikkanam, India’ was conducted with the main objective to study the efficacy of online examination systems in both the universities. It is conspicuous from the study that most of the respondents are gratified with the online examination systems of both the universities. This research is an example, perhaps of moving up to the next level, beyond ‘oversight’ towards a deeper understanding or ‘insight’ of the processes and changes that are in fact occurring.

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