

RESEARCH TOOL FOR TEACHERS

**Department of Extension & Communication
Faculty of Family and Community Sciences,
The Maharaja Sayajirao University of Baroda, Vadodara**

Respected Sir/Madam,

I am a Ph.D. Student of Department of Extension and Communication, Faculty of Family and Community Sciences, the Maharaja Sayajirao University of Baroda, Vadodara. I am doing my Ph.D. research on **“A Study on Readiness of the Teachers of the Maharaja Sayajirao University of Baroda, Vadodara, Regarding Usage & Development of e-content”**

I request you to please fill out the enclosed questionnaire prepared for the same. I assure you that the information provided by you will be kept confidential and will be used for academic purposes only.

Thanking you,

Yours faithfully,
MS. RUMA CHOKSHI
Investigator

PROF. ANJALI PAHAD
Research Guide
Department of Extension and communication
Faculty of Family and Community Sciences
The Maharaja Sayajirao University of Baroda,
Vadodara

Section 1: Background Information

Directions: Please tick mark or write against the most applicable response and provide detail wherever needed.

1. **Designation:** _____
2. **Gender:** _____Female _____ Male
3. **Age (in year):** _____
4. **Educational Qualification:**
 - a. Post-Graduation
 - b. M.Phil.
 - c. Ph.D.
 - d. Any Other (please specify) _____
5. **Job status:** _____Permanent _____ Temporary
6. **Area of specialization:** _____
7. **Teaching Experience (in years):** _____
8. **What type of different Information Communication Technology (ICT) do you use for teaching purpose? (Multiple response)**

Computer	
Printer	
LCD Projector	
Internet / Wi-Fi connections	
Mobile	
Video-audio sharing through applications	
Video conferencing	
Interactive boards	
If any other then please specify,	

Section 2: Computer & Internet Usage

Directions: Please tick mark or write against the most applicable response and provide detail wherever needed.

1. How frequently do you use a computer? (at the workplace)

Daily	
Weekly	
Twice/ thrice a week	
Fortnightly	
Rarely	

2. Which of the following gadgets do you own? (Multiple responses)

Smartphone	
Personal computer	
Laptop	
Tablet	
I-Pad/ I-Phone	
If any other then please specify,	

3. From where do you access the computer? (Multiple responses)

At Cyber café	
At Home on a personal computer	
At College computer lab	
At College on a personal computer	
If any other then please specify,	

4. For what purposes do you use a computer? (Multiple responses)

For making a power-point presentation	
For making lecture notes	
For data storage	
Preparing lessons for lectures	
For Administration work	
If any other then please specify,	

5. Through which device do you use the internet? (Multiple responses)

Smartphone	
Personal computer	
Laptop	
Tablet	
I-Pad/ I-Phone	
If any other then please specify,	

6. From where do you access the internet? (Multiple responses)

At Cyber café	
At Home on a personal computer	
At College computer lab	
At College on a personal computer	
If any other then please specify,	

7. How frequently you use internet? (at work place)

Daily	
Weekly	
Twice/ thrice a week	
Fortnightly	
Rarely	

8. Which type of primary internet connection you use?

- ☐ Wi-Fi
☐ Dongle/ data card
☐ LAN

Any other: _____

9. Which type of internet speed you use?

2G limited	
2G unlimited	
3G limited	
3G unlimited	
4G	
Any other:	

Section: 3: Computer & Internet related Technical Competencies

NOTE: kindly tick against the appropriate option given below.

Prerequisites skills: means basics skill which are necessary to operate a computer.

Advance skills: means skills that are necessary for using softwares.

Online skills: means skills that are necessary for online activities.

Sr. No	Statements	Fully competent	Partially competent	No competent
Prerequisites skills				
1	Startup and shut down computer according to computer type (windows based, ios-based system)			
2	Identify and use icons of applications			
3	Create, Name, and rename the document, save a document using both the save and save as commands			
4	Rename of the document, Transfer folder from computer to hard drive, pen drive			
5	Save, open, and place documents inside Sub-folders			
6	Open and work with more than one application at a time.			
7	Cleaning of hard disk, components, and printers & computer system from virus			
8	Make backup copies of key applications and documents			
9	Install and upgrade an application and software's			
Advance skills				
1	Word processing for making content file			
2	Spreadsheets, SPSS package for statistics			
3	PowerPoint presentation			
4	Paint, publisher & other programmes like Photo editing			
5	LMS online library searches			
6	Convert word documents to PDF format.			
7	PowerPoint presentation into PDF and JPEG file format.			

Sr. No	Statements	Fully competent	Partially competent	No competent
Online skills				
1	Read, save, print, and Upload text on web			
2	Send electronic mail with file attachment			
3	Create and use google group's addresses for mail.			
4	Zip files for mailing many files			
5	Use google drive and iCloud to share files & documents.			
6	Use of Search engines like google, yahoo, Wikipedia			
7	Subscribe online journals, books & other digital material for reference material			
8	Procedure of Publishing online article, lecture video through you-tube, slide-share, online books			
9	Access a specific web site by entering the appropriate URL* (concept of Universal Resource Locator , http*, web site)			
10	Use of social networking-sites like Facebook, twitter.			
11	Online services like fees payment, application submission, bill payments, online shopping, etc.			
12	Upload and download documents or pictures or videos online			
	If any other then please specify,			

Section: 4: Perception towards Technology

Note: Please tick mark against the appropriate options.

GE- Great Extent, SE - Some Extent, LE - Less Extent

Sr. No.	Statements	GE	SE	LE
1	Technology helps in understanding course content.			
2	Usage of technology creates interest among students.			
3	Technology diverts the attention of students from the subject matter			
4	Technology increases the concentration of students.			
5	Technology Improves critical thinking in students.			
6	If teachers use technology to prepare lectures can have lots of time to do other work.			
7	Usage of technology is Time-consuming			
8	Teaching is more effective with the use of technology like e-content			
9	The education system should be partially dependent on technology			
10	Online collaboration motivates students to actively participate in any educational discussion			
11	Technology increases teachers' productivity.			
12	Teaching through technology puts work pressure on teachers			
13	Hardware can be unreliable leading to breakdowns which cause frustration			
14	Using technology means students can become dependent on computers and do not learn how to do things manually			
15	Technology & internet can lead to students accessing unsuitable sites			
16	Dependency on technology leads to Illegal acts like plagiarism			
	If any other then please specify,			

Section: 5: Knowledge regarding e-content

I. Choose the correct answer and fill in the blanks.

1. e-content is also known as _____
 - ☐ Course content
 - ☐ Digital content
 - ☐ E-learning
 - ☐ Content learning

2. Technical re-usability of e-content is concerned with _____
 - ☐ Standardization initiatives
 - ☐ Intellectual property protection
 - ☐ Knowledge transfer
 - ☐ Various kinds of Tools used to support e-content

3. Educational e-content offers features like _____
 - ☐ Unique Tests, Instant grading, and feedback
 - ☐ Expensive fees for enrolment
 - ☐ Non-downloadable content
 - ☐ Late feedback for problem

4. Digital content comes in many forms like _____
 - ☐ Images, Text, Animations, Audio & Videos Files
 - ☐ Printed books
 - ☐ Journals
 - ☐ None of above

II. State whether the following statements are true or false by tick mark “T” if true or “F” if false.

1. e-content is computer-based educational digital content that enables to teach and learn anywhere at any time. **T/F**
2. e-content is delivered through printed matters. **T/F**
3. e-content restricts the users to use varied formats of the documents available online **T/F**

4. e-content offers a Personalized teaching-learning process. **T/F**
5. e-content creates barriers in the teaching-learning process. **T/F**
6. e-content distracts the learners from class-room teaching. **T/F**
7. e-content is environment friendly **T/F**
8. Usage of e-content, gives you more time to spend on other work. **T/F**
9. Learning objects in e-content are self-contained. **T/F**
10. e-content are openly licensed materials and media that are useful for teaching-learning. **T/F**
11. e-content is information delivered over network based electronic devices. **T/F**
12. e-content is the part of digital course material that includes OER. **T/F**

III. Select an appropriate word from the words given below into the brackets and fill in the blanks.

1. Any entity, digital or non-digital, that may be used for learning, education or training can be called _____ (**Learning Object**/reading objects)
2. The Xerte is a free and open source _____ tool. (**Authoring** / Synchronising)
3. _____ is the use of game element in a non-interesting context to engage users and solve problems. (**Gamification** /Audio-Video)
4. e-content is _____ (**Cost Effective** / Expensive)

Section: 6 Interest in e-content for Teaching

Note: Please tick mark against the appropriate options.

Sr. no.	Interest in e-content for Teaching	Fully interested	Partially interested	Not interested
I am interested in e-content for teaching as...				
1	It is an innovative method			
2	It Brings wide experiences in the classroom.			
3	It Increases motivation amongst students			
4	It may increase the attendance of the students in classes with the use of e-content.			
5	It Brings variety in teaching			
6	It Helps in the personalized teaching process.			
7	It Provides flexibility in learning.			
8	It Covers the large set of learning for the teaching-learning process.			
9	It is easy to learn to use e-content for teaching.			
10	It is Cost-effective teaching method			
11	It provides a new experience of teaching through e-content			
12	As it will make me a popular teacher.			
13	Usage of e-content will help me to build a positive image as a teacher.			
14	I want to be e-content recognized as an expert			
15	It produces the scope of Variation in terms of visuals, print, animation for my teaching.			
	If any other then please specify,			

Section: 7 Readiness of the teachers for Usage of e-content for Teaching

NOTE: Please tick mark against the appropriate options.

SA-Strongly Agree, A- Agree, N-Neutral, DS- Disagree, SDA- Strongly Disagree

Teachers Readiness for the present research means the state in which teachers are prepared to receive benefits of electronic content for their class-room teaching. E-readiness for the present research, Interprets as the readiness of University teachers on several selected aspects to implement class-room teaching through e-content.

Sr. No	Statements related to the readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
Environment readiness (related to self)						
1	I am highly motivated for teaching through e-content.					
2	I would be able to dedicate 4 to 6 hours a week to participate in the teaching through the e-content process.					
3	I am willing to devote more time to an online class than an onsite class.					
4	I am able to create schedules for incorporating digital teaching.					
5	My interest to teach online provides me enough free time for other professional activities like attending related conference.					
6	My interest in online teaching is motivated by the flexibility it offers.					
7	I have enough capabilities in me for managing technology enriched class-room.					
8	I have capacity to learn new educational technology for making my teaching interesting.					
9	I have skills for using new technology for my class-room teaching					
10	I have necessary skills to use e-content for class-room teaching.					
11	I have enough experience for using new educational technology, for classroom teaching.					
12	I have experience of using different teaching strategies.					

Sr. No	Statements related to readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
13	I have exposure of e-content for using it in class-room for my teaching.					
14	I am flexible in dealing with students on such issues related to e-content.					
15	I am fairly organized in planning for my educational technology based teaching (through e-content)					
16	I can control students in a technology enriched class-room.					
17	Teaching through e-content in class-room helps to create better understanding of my subjects.					
18	Teaching through e-content is more comfortable than traditional chalk-board methods.					
19	Usage of e-content gives me credits for my professional growth.					
20	Usage of e-content will provide me with better teaching – learning opportunities than contemporary means of learning					
21	My progressive nature motivates me to use e-content for teaching effectively					
22	I have abilities to teach though educational technology in class-room.					
23	I have abilities to use e-content courses for my subjects.					
24	I am able to communicate with students while teaching through e-content.					
25	Usage of e-content will increase my reputation among students.					
26	I want to use e-content for my teaching because my colleagues are using it.					
27	Some colleges are using e-content for their daily teaching, that practices gives me competition, so I want to use e-content for teaching.					
28	My family and friends motivate me to use e-content in my teaching.					
29	Competition in education and need of integrating new methods & material related to technology inspired me to be geared up for e-content usage for my teaching.					
30	My students motivate me to use e-content for teaching.					

Sr. No	Statements related to readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
31	I want to integrate e-content courses in the curriculum so as of stimulate varied learning activities.					
32	I want to use e-content because I want to increase my reputation among students.					
33	As a teacher, it's my moral responsibility that, I should use new innovative methods for my teaching so that students get benefited.					
34	I should use e-content so that distance students get benefited with our courses.					
35	It is my responsibility to incorporate e-content in teaching as a new method so that my junior staff can get motivation.					
36	My timetable is flexible enough to provide time to use e-content for teaching.					
37	The flexibility characteristics of e-content motivates me to use it for teaching.					
38	Considering my schedule, I am able to spend significant time and energy to engage in teaching through e-content.					
39	I can devote my personal time to complete assignments and readings for teaching through e-content.					
40	I will be able to manage my time well in a technology enriched class – room.					
41	I am willing to support my teaching with new educational technology methods.					
42	I like to experiment with new information technologies for teaching and learning					
43	I can make use of e-content to disseminate information of the subject to the students.					
44	I would work hard to make e-content a success story for me					
Environment aspect (related to department)						
1	My department staff is very Supportive for accepting new technology & innovations for education.					
2	My department has commitment on the part of institutional leaders to use ICT to achieve strategic academic goals.					

Sr. No	Statements related to readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
3	My department have motivating culture to support adoption of new technology initiative for teaching.					
4	My department is willing to accept teaching through e-content courses.					
5	My department staff makes efforts for using technology for communications and even for teaching.					
6	My department head promotes teachers for the usage of technology for class-room teaching.					
7	My department administration provides adequate and timely support to the teacher and students for technical issues.					
8	My department has Techno-friendly environment					
9	My colleagues in department have pro-active approach towards teaching through e-content.					
10	My department head is keen & motivates all the staff members for technology used for classroom teaching					
11	My department provides internal competition, which motivates all teachers for using e-content for teaching as a new innovation technology.					
12	My department's senior teachers are always ready to adopt new educational technology for achieving academic goals.					
13	My department teachers are always ready to participate in seminars, training program, or workshops related to the usage of e-content in teaching.					
14	My department teachers are ready to accept e-content for teaching-learning process.					
15	My Department culture boosts the teachers to become effective users of e-learning technology.					
Financial Aspect						
1	I am willing to spend money for learning new technology.					
2	I like to invest in purchasing reading materials related to e-content (technology).					
3	I am interested in taking training related to e-content usage.					

Sr. No	Statements related to the readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
4	I am interested in participating in workshops related to e-content usage for teaching whenever get the opportunity.					
5	I make a budget head for participating seminar / workshops / training programme related to e-content usage for teaching.					
6	I make little budget for up gradation of software's and hardwires for my personal usage which are necessary for e-content.					
7	I would like to invest money for purchasing books and other digital material which are helpful for me to learn about e-content.					
8	I am ready to invest my own finance for content designing which is necessary for converting my subject content in to e-content.					
9	I would like to spend my own money for learning how to convert my subject in e-content					
Technological Aspect (Related to self)						
1	I am technically capable enough for using the internet for educational purposes (e.g. using search engines, making accounts on various websites & portals, finding materials, online video chat with professionals.					
2	I dedicate my personal time to learning new educational technology for my up-gradation.					
3	I intend to spare my time for solving students' queries & problems related to e-content courses after my job hours also.					
4	I spar my time for online line chat room for discussion related to content course with students.					
5	I intend to spare my time for learning new methods related to e-content courses.					
6	I am ready to participate in seminar workshops and training programme related to e-content converse.					
7	I have skills in online learning management systems.					

Sr. No	Statements related to the readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
Technological Aspect (Relate to Department)						
1	My department provides sufficient support technical staff who can solve any technical issues on time.					
2	My department's higher authorities ensure that instructional resources and equipment are readily available for usage					
3	My department's higher authorities ensure that instructional resources and equipment are reliable for usage					
4	The online platform used by my department for course delivery has the necessary system support for the teaching-learning activities of e-content courses.					
5	The online platform used by my department for course delivery has the necessary system capacity to support the teaching-learning activities of the course.					
6	The current technological infrastructure of my department is adequate to build and/or sustain an online teaching-learning environment.					
7	My department has sufficient hardware with the necessary software for e-content course usage for teaching.					
8	There is a stable internet connection available in the department.					
9	There is a steady supply of electricity in my university.					
10	There is an existing contingency plan in case of breakdown.					
11	My department has provided the necessary equipment for classroom usage and making our classroom technology-friendly.					
12	Department's Technical support staff helps in technical problems during the implementation of e-content courses.					
13	My department has ready for owning new equipment, required for usage of e-content for teaching.					

Sr. No	Statements related to the readiness of teachers for Usage of e-content for Teaching	SA	A	N	DA	SDA
14	My department is ready for the up-gradation of our course – curriculum for converting it into the (Digital content) form of e-content.					
15	My department is ready to provide sufficient support technical staff who can solve any technical issues on time.					
16	My department has sufficient hardware with the necessary software for e-content course usage for teaching.					
Course Content aspect						
1	My department Course Content is flexible for converting in to the digital text					
2	Digital resources are available related to my courses for reference					
3	Test evaluation sheets can be easily designed for my department Course Content					
4	Availability for variety of images related to courses offered in the department which can be used for e-content					
5	My department Course Content Can be easily taught through e-content					
6	My department Course Content can be well explained through e-content for students understanding					
7	My department Course Content is well structure hence can be converted into e-form					
8	My department courses are suitable for converting into e-form					

Section: 8: Expected Challenges related to the usage of e-content for Teaching

Direction: Please tick mark against the appropriate options.

GE- great extent , SE- Some extent , LE- less extent, NA- Not at All

Sr. No.	Statement	GE	SE	LE	NA
1	Inadequate training of teachers on e-content use				
2	Inadequate ICT tools in department for e-content use				
3	Lack of technical support in department / University				
4	Interrupted supply of electricity				
5	Limited access of internet facility				
6	Negative attitude towards teaching e-content amongst department / University teachers.				
7	Limited fund/budget provision for new innovations in the field of recent education technology				
8	Insufficient number of computers				
9	Insufficient number of internet connections for computers				
10	Insufficient Internet bandwidth or speed				
11	Insufficient number of interactive whiteboards				
12	Insufficient number of laptops				
13	Lack of adequate skills of teachers				
14	Lack of adequate content/material for teaching				
15	Difficult to integrate e-content usage, into the curriculum				
16	Lack of pedagogical models on how to use e-content for teaching				
17	Lack of interest of teachers in e-content usage				
18	Pressure to prepare students for exams and tests on teachers through personal/ face to face interactions				
19	Unable to use e-content because of rigidity of time				
20	Heterogeneity amongst students preferences to study through e-content & e-learning process				
	If any other then please specify,				

Section: 9: Suggestions

NOTE: Please tick mark against the appropriate options.

SA-Strongly agree, A- agree, N-neutral, DA- disagree, SDA- strongly disagree

Sr. No.	Statement	SA	A	N	DA	SDA
1	Higher authorities should promote e-content usage in universities					
2	Appreciation should be given to the teachers who use e-content for class-room teaching.					
3	Compulsory orientation of e-content usage should be offered to newly recruited teachers.					
4	Promotion of teachers should have the criteria of usage of latest ICT in teaching.					
5	Some compulsory percentage of teaching hours should be decided to promote e-content for teaching					
6	The department / faculties should gear up to provide faculties to use e-content for class-room teaching.					
7	The in-service training have compulsory session on e-content usage for teaching.					
8	University can create in-house facility for faculties e-content usage of class-room					
9	Baby steps like teaching 20% of the courses offered in one programme should be thought by using e-content in class-room					
10	UGC can play an active role in implementing a policy to have compulsory knowledge of e-content usage for university teaching.					
11	Post-graduation degree/ Ph.D. programmes should have minimum one course where training related to e-content usage and development are taught					
12	Training cell can be created to train interested teachers for e-content usage/ development for class-room teaching.					
13	The entrance exams like NET/SLET/PET should include questions related to e-content.					

Sr. No.	Statement	SA	A	N	DA	SDA
14	Research cell of our university should give preferences to the researcher proposals related to usage/ development of e-content.					
15	Foundation courses like English/ communication skills/ statistics which are offered at various degree programmes, similar to that e-content awareness courses should be offered.					
16	Knowledge about e-content about e-content usage/ development should be made mandatory while recruiting university teachers.					
17	Well-versed technical staff should be appointed in the departments to assist teachers with e-content usage/ development.					
18	UGC should make a policy/ rules for teachers to receive certified training as prerequisites to promotions.					
19	All departments and faculties should arrange Workshop/ Seminars/ Training Programmes for using e-content for teaching on regular basis for their staff and students					
20	University should introduce a budget head for the purchase of equipment's and other facilities related to e-content usage					
21	Free of cost Orientation Programme related to recent Education Technologies should be organized by University					
22	Competitions can be arrange at department and faculty levels related to usage and development of educational technology like e-content					
23	Evaluative committers like NAAC/ NIRF should have criteria related to e-content usage and development for accreditation of universities					
	If any other then please specify,					

IN-DEPTH INTERVIEW SCHEDULE FOR TEACHERS

Department of Extension and communication

Faculty of Family and Community Sciences

The Maharaja Sayajirao University of Baroda

Dear Respondents,

I am a Ph.D. Student of Department of Extension and Communication, Faculty of Family and Community Sciences, the Maharaja Sayajirao University of Baroda, Vadodara. I am doing my Ph.D. research on **“A Study on Readiness of the Teachers of the Maharaja Sayajirao University of Baroda, Vadodara, Regarding Usage & Development of e-content”**

I request you to please fill out the enclosed questionnaire prepared for the same. I assure you that the information provided by you will be kept confidential and will be used for academic purposes only.

Thanking you,

Yours faithfully,
MS. RUMA CHOKSHI
Investigator

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Vadodara

a. Status of Usage & Development of e-content

1. Do you use the computer for daily classroom teaching?

Yes

No

2. Do you teach students through any kind of digital material?

Yes

No

3. Do you subscribe to online or digital journals for references?

Yes

No

4. Does your college have e-content (digital content) in the library?

Yes

No

5. Are you ready to develop e-content for classroom teaching?

Yes

No

b. Planning & Implementation related to Development of e-content

1. Your department's Strategies for catering teachers demand to learn about the development of e-content?

2. What are the Expected barriers to the usage & development of e-content?

3. Steps for motivating teachers for using & developing e-content:

4. Efforts made by the department for preparing teachers for content digitalization:

5. Further plans for development of e-content:
