MANAGEMENT OF COGNITIVE ABILITIES AND FUNCTIONAL SKILLS AMONG JUNIOR COLLEGE TEACHERS – A STUDY

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ABSTRACT

In present study cognitive abilities refer to the knowledge of Junior college teachers about different hardware educational technologies. And skill means perfection in performing task. The knowledge of practically operating particular hardware educational technology is referred to functional skill. So the functional skill means the ability of Junior college teachers to practically use and apply the concerned hardware educational technology for their teaching and learning purpose. The present study is about cognitive ability and functional skill of the Junior college teachers of various institutions regarding to modern and traditional hardware educational technologies.

Objectives:

1. To study the cognitive ability of Junior college teachers about modern and traditional hardware educational technologies.

2. To study the functional skills among Junior college teachers about modern and traditional hardware educational technologies.

Methodology:

As the study is descriptive in nature, the Survey of research method is used for collection of data.

Population: *All the Junior college teachers, in various institutions running Junior colleges in Sangli District of Maharashtra.*

Sample and Sampling Techniques:

The total of 400 Junior college teachers were selected randomly from the selected Junior colleges.

Analysis of the Data:

For the present study the data was collected by using developed and standardized Questionnaire by researchers particularly.

Findings:

We conclude that the Junior college teachers teaching at various institutes are having different cognitive and functional skills regarding different modern and traditional hardware educational technologies.

Keywords*: Cognitive Abilities, Functional Skills, Junior College Teachers.*

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Introduction:

Cognitive ability means mental or intellectual abilities involved in perception, knowing and abstract thinking. With age, some cognitive abilities decline, especially the executive functions. In addition, cognitive abilities that are not used regularly tend to diminish over time. Functional Skills are practical skills in English, Mathematics and ICT that help learners gain the most out of work, education and everyday life.

In present study cognitive abilities refer to the knowledge of Junior college teachers about different hardware educational technologies. And skill means perfection in performing task. Actually the skill has two meanings one of them is a constellation of behavior and in the second skill refers to the capability to perform a task with high proficiency. The knowledge of practically operating particular hardware educational technology is referred to functional skill. So the functional skill means the ability of Junior college teachers to practically use and apply the concerned hardware educational technology for their teaching and learning purpose.

Objectives:

The present study was conducted with following objectives:

1. To study the cognitive ability of Junior college teachers about modern and traditional hardware educational technologies.
2. To study the functional skills among Junior college teachers about modern and traditional hardware educational technologies.

Assumption:

The present study is based on the following assumptions –

All the Junior college teachers regarding with this study are having similar cognitive ability and functional skills with reference to modern and traditional hardware educational technologies.

Methodology:

As the study is descriptive in nature. The Survey of research method is used for collection of data.

Population: All the Junior college teachers, in various institutions running Junior colleges in Sangli District in Maharashtra.

Sample and Sampling Techniques: The total of **400** Junior college teachers were selected randomly from the selected Junior college institutions.

The Scope: The present study is about **400** Junior college teachers of 20 Junior college institutions running Junior colleges in Sangli District in Maharashtra.

Analysis of the Data:

For the present study the data was collected by using developed and standardized Questionnaire by researchers particularly for the present study.

Table 1: cognitive ability of Junior college teachers about modern hardware educational technologies

Sr No	Name of the Instrument	cognitive ability of Junior college teachers
		Total No. of Junior college teachers (N=400)
		Dimensions

		General Awareness		Componential Knowledge		Implicational Knowledge		Educational Usability		Implicational Flexibility		Technological Integration		Total	
		Yes	%		%		%		%		%		%		%
1	Computer	326	82	365	91	311	78	246	62	264	66	284	71	1796	75
2	T.V.	280	70	312	78	246	62	251	63	249	62	212	53	1550	65
3	C.D. player	280	70	312	78	246	62	251	63	249	62	212	53	1550	65
4	D.V.D. player	247	62	273	68	249	62	233	58	250	63	239	60	1491	62
5	Video camera	224	56	194	49	217	54	265	66	315	79	289	72	1504	63
6	Slide projector	289	72	288	72	279	70	273	68	256	64	268	67	1653	69
7	L.C.D.	149	37	210	53	177	44	179	45	249	62	189	47	1153	48
8	Epidia scope	143	36	158	40	139	35	119	30	178	45	173	43	910	38
9	Internet	165	41	215	54	212	53	189	47	280	70	125	31	1186	49

Observations:

More than 65% of the Junior college teachers from different institutes were having cognitive ability with reference to different dimensions of modern hardware educational technologies as computer (75%),T.V. (65%) ,C.D. player(65%), D. V. D. player(62%), Video camera(63%), Slide projector(69%).

And very less cognitive ability was found among the Junior college teachers regarding modern hardware educational technologies as L.C.D.(48%), Epidia scope(38%), and Internet(49%).

Conclusion: Most of the Junior college teachers are having cognitive ability of different modern hardware educational technologies but not so more.

And the Junior college teachers are having less cognitive ability about modern hardware educational technologies.

Table 2: cognitive ability of Junior college teachers about Traditional hardware educational technologies

Sr No	Name of the Instru	cognitive ability of Junior college teachers
		Total No. of Junior college teachers (N=400)

		Dimensions													
		General Awareness		Componential Knowledge		Implicational Knowledge		Educational Usability		Implicational Flexibility		Technological Integration		Total	
		Yes	%		%		%		%		%		%		%
1	calculator	198	79	163	65	168	67	165	66	153	61	175	70	847	57
2	Globe	220	55	259	65	225	56	236	59	309	77	305	76	1554	65
3	models	129	32	159	40	188	47	177	44	186	47	130	33	969	40
4	O.H.P.	287	72	277	69	289	72	278	70	245	61	259	65	1635	68
5	Film Projector	136	34	151	38	148	37	124	31	179	45	171	43	909	38
6	Tape recorder	157	39	243	61	209	52	199	50	277	69	139	35	1224	51
7	Radio	133	33	149	37	186	47	178	45	189	47	185	46	1020	43
8	Photo camera	90	23	93	23	99	25	89	22	94	24	86	21	551	23

Observations:

More than 65% of the Junior college teachers from different institutes were having cognitive ability with reference to different dimensions of traditional hardware educational technologies as Globe. (65%), O.H.P. (68%), D. V. D. player(62%), Video camera(63%), Slide projector(69%),

And very less number of the Junior college teachers have cognitive ability of traditional hardware educational technologies as calculator (57%), models (40%), Film Projector (38%), Tape recorder (51%). and Photo camera (23%).

Conclusion: Most of the Junior college teachers are having cognitive ability of different traditional hardware educational technologies but not so more.

And very less number of the Junior college teachers have cognitive ability of traditional hardware educational technologies.

Table 3: Functional Skill of Junior college teachers about modern hardware educational technologies

Sr No	Name of the Instru	cognitive ability of Junior college teachers
		Total No. of Junior college teachers (N=400)

		Dimensions													
		General Awareness		Componential Knowledge		Implicational Knowledge		Educational Usability		Implicational Flexibility		Technological Integration		Total	
		Yes	%		%		%		%		%		%		%
1	computer	228	57	303	76	311	78	246	62	246	62	199	50	1533	64
2	Internet	130	33	151	38	172	43	173	43	171	43	164	41	961	40
3	C.D. player	246	62	276	69	249	62	246	62	249	62	243	61	1509	63
4	D. V. D. player	249	62	254	64	246	62	243	61	266	67	278	70	1536	64
5	L.C.D.	139	35	147	37	189	47	173	43	184	46	111	28	943	39
6	Video camera	211	53	253	63	237	59	256	64	240	60	217	54	1414	59
8	Epidia scope	113	28	114	29	119	30	156	39	130	33	134	34	766	32
9	T.V.	289	72	306	77	319	80	249	62	214	54	283	71	1660	69
10	Photo camera	91	23	93	23	98	25	89	22	96	24	83	21	550	23

Observations:

More than 64% of the Junior college teachers from different institutes were having functional skill about modern hardware educational technologies as computer (64%), C.D. player. (63%), D. V. D. player (64%), Video camera (59%), T.V. (69%).

And very less number of the Junior college teachers have cognitive ability of traditional hardware educational technologies as L.C.D (39%), models (40%), L.C.D. (39%) Epidia scope (32%) and Photo camera (23%).

Conclusion: Most of the Junior college teachers are having functional skill about modern hardware educational technologies but not so more.

And very less number of the Junior college teachers has functional skill about modern hardware educational technologies.

Table 4: Functional Skill of Junior college teachers about Traditional hardware educational technologies

Sr No	Name of the Instru	cognitive ability of Junior college teachers
		Total No. of Junior college teachers (N=400)

		Dimensions													
		General Awareness		Componentia l Knowledge		Implicational Knowledge		Educational Usability		Implicational Flexibility		Technological Integration		Total	
		Yes	%		%		%		%		%		%		%
1	Calculat or	198	79	163	65	168	67	165	66	153	61	175	70	847	57
2	Globe	222	56	269	67	255	64	289	72	277	69	288	72	1600	67
3	O.H.P.	129	32	156	39	146	37	133	33	156	39	161	40	881	37
4	Tape recorder	144	36	153	38	169	42	165	41	177	44	185	46	993	41
5	Film Projector	91	23	93	23	98	25	89	22	96	24	83	21	550	23
6	models	188	47	169	42	173	43	185	46	179	45	179	45	1073	45
7	Radio	106	27	103	26	116	29	122	31	134	34	137	34	718	30
8	Photo camera	89	22	77	19	79	20	89	22	99	73	78	20	511	21

Observations:

More than 62% of the Junior college teachers from different institutes were having functional skill of Junior college teachers about traditional hardware educational technologies as Globe. (67%), And very less number of the Junior college teachers have cognitive ability of traditional hardware educational technologies as calculator (57%), O.H.P. (37%), Tape recorder (41%). Film Projector (23%), models (45%), Radio (30%), Photo camera (21%)

Findings:

The Junior college teachers teaching at various Junior college institutes were found that very low functional skill of Junior college teachers about traditional hardware educational technologies.
And very less number of the Junior college teachers has cognitive ability of traditional hardware educational technologies.

Conclusion:

Finally, we can conclude that the Junior college teachers teaching at various Junior college institutes having different cognitive and functional skill regarding different modern and traditional hardware educational technologies.

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