

IT@Schools in Karnataka

Background

ICT education in the schools has been practiced for many years. The major shortcomings observed in the previous approaches were

- a. The projects were implemented by instructors hired from the market and hence ownership of the teachers was minimal.
- b. Many times the schemes ended up with procurement of the hardware which was not properly used due to the lack of ownership in the school.

Considering these factors, Karnataka has restructured the ICT programme and integrated all technology based programmes under the umbrella of Technology Assisted Learning Programme (TALP). TALP comprises of EDUSAT, Computer Assisted Learning Centres under SSA, Tele-Education, Radio programmes and IT@Schools in Karnataka.

This project aims at paradigm shift in the approach towards ICT education in three ways.

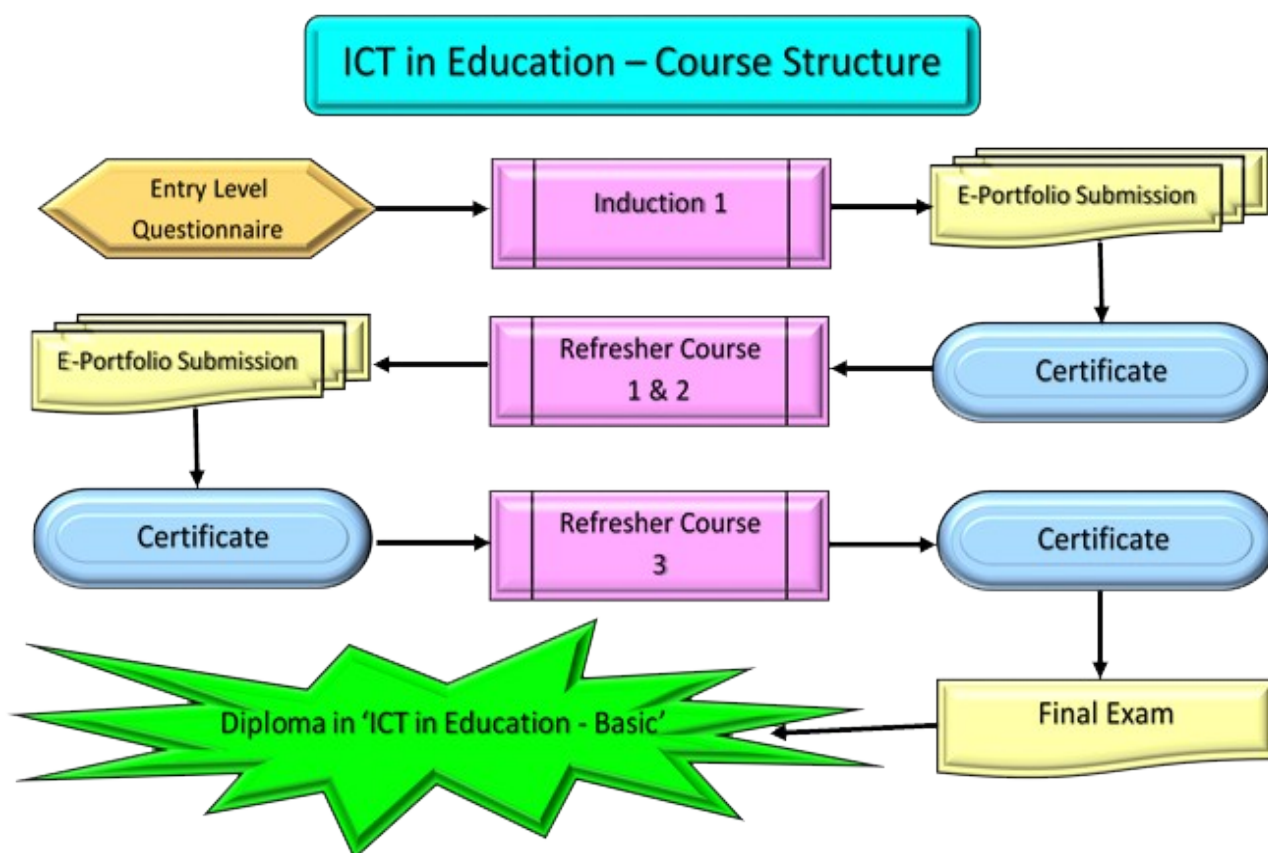
- a. It emphasizes on ownership of the ICT education by the teachers.
- b. The implementation sequence is put as content development, teachers training and hardware procurement.
- c. Using Free and Open Source Softwares (FOSS) – Operating System and Software Applications in order to expand the range of learning, creation and sharing.

The programme was conceived and implemented during 2016-17 in 1000 Government Secondary Schools of the State. During 2017-18, 750 High schools and 250 PU colleges selected and covered training also.

PROGRESS DURING 2018-19

Selection of Schools & Teachers training

The course structure is as follows



1. Induction-1

In 2018-19 four teachers from 429 Tele-Education schools have been trained in Induction-1. Along with it 750 new schools have been selected and four teachers from these have given training in Induction-1. KPS have been selected and trained four teachers from those schools.

Sl. No.	Educational Districts	No of Tele-Education Schools	No of Teachers trained	No. of New Schools Selected	No of Teachers trained
1	Bagalakote	25	88	43	144
2	Ballari	11	39	37	102
3	Belagavi	24	73	31	104
4	Bengaluru North	0	0	10	19
5	Bengaluru Rural	7	27	19	70
6	Bengaluru South	0	0	11	58
7	Bidar	29	104	35	117
8	Chamarajanagara	13	52	17	68
9	Chikkaballapura	11	43	11	0
10	Chikkamagaluru	0	0	18	66
11	Chikkodi	0	0	31	120
12	Chitradurga	20	73	29	106
13	Dakshina Kannada	0	0	31	124
14	Davanagere	40	143	15	78

15	Dharawada	0	0	9	23
16	Gadaga	0	0	16	48
17	Hasana	0	0	40	137
18	Haveri	16	63	24	88
19	Kalburgi	38	132	44	144
20	Kodagu	0	0	0	0
21	Kolara	17	56	28	98
22	Koppala	25	87	14	50
23	Madhugiri	10	24	15	47
24	Mandya	0	0	25	98
25	Mysuru	31	121	36	137
26	Raichuru	16	56	11	43
27	Ramanagara	17	68	15	74
28	Shivamogga	28	102	24	104
29	Sirsi	13	47	28	95
30	Tumkuru	7	28	14	95
31	Udupi	0	0	15	59
32	Uttara Kannada	5	21	11	34
33	Vijayapura	8	30	30	110
34	Yadgiri	18	55	31	97
TOTAL		429	1532	768	2757

Course Content :

NCERT-CIET Developed ICT Curriculum for Teachers – Induction - 1

- Session 01: Creating with ICT – Media : Images
- Session 02: Creating with ICT – handling Media : Audio and video
- Session 03: Creating with ICT – Handling Text
- Session 04: Inputting in Indian languages – fonts and keyboard
- Session 05: Creating with ICT – handling data
- Session 06: Bringing together hardware and software
- Session 07: Introduction to browser and browsing
- Session 08: Accessing information through web
- Session 09: Exploring Web resources I
- Session 10: Communicating through Email
- Session 11: Exploring Web resources II
- Session 12: Working with data – Exploring spreadsheet 1
- Session 13: Working with data – Exploring spreadsheet II
- Session 14: Working with text- Exploring word processor
- Session 15: ICT in the classroom – hardware and software
- Session 16: Introduction to Assistive Technologies
- Session 17: Collaborating and Transacting using ICT
- Session 18: Management Information System (MIS)

Session 19: Exhibition and peer evaluation
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Session 20: Evaluation and portfolio submission

Teachers have to register to www.lctcurriculum.gov.in web portal and they have to submit 39 assignments to web portal only. Here each teacher will have their own login credentials so no hard copy of module is supplied. This web portal is created and maintained by CIET. CIET have given a space for Karnataka state in which state can register their participants and conduct training.

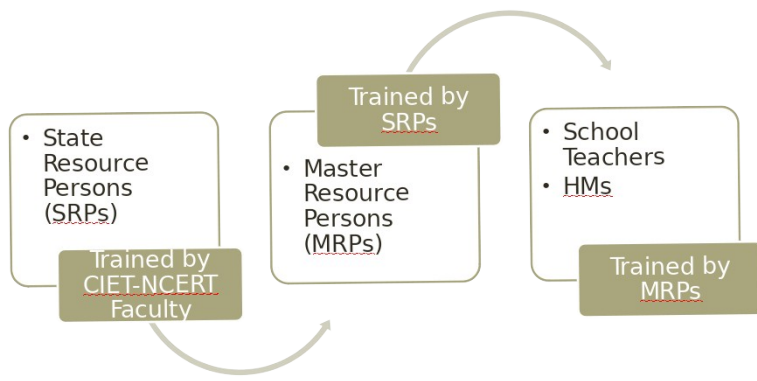
Here about 100 questions of MCQs are there which each participant has to submit. These questions are related to ICT skills of teachers. After this training the same questions are there in Refreshers course which each teacher has to answer there. By analysing these answers DSERT can get the impact of Induction-1 training.

In this training each participant will learn basic use of Computer, basics about word processor, spreadsheet, online safety tips, creation and working with email, use of cloud storage, MIS.

More than 140 training videos have been prepared by GOK in coordination with APF, for the purpose of teachers training. These videos are also available in the public domain through YouTube under the channel TALP It at schools in Karnataka. All Videos are under the licence Creative Commons licence By attribution, non-commercial and share alike. The link for videos is, <https://www.youtube.com/channel/UCFouGpmi6EMbLL-D1osZJLw>. The content is emphasizing on the practical aspects of the computer education. 156 videos are created in English language in context with Curriculum based on Induction-1 – CIET and it has been sent to CIET for verification purpose. Once it verified by CIET then DSERT will incorporate the link in the web portal for better understanding of the concept.

2. Refreshers-1&2 Course:

In the month of May-June 2018, DSERT sent 15 State Resource Persons to get Refreshers-1 training in RIE Bhopal. After their training completion, DSERT conducted a preliminary meeting and conducted state level MRP training simultaneously in Bengaluru Rural DIET, Bengaluru Urban DIET & DSERT from midst of July-2018. Here 121 MRPs attended the training and in turn they gave Refreshers-1 course training to Mathematics, Science, English & Social Science teachers who got Induction-1 training in 2016-17 & 2017-18 respectively in their DIETs.



Following table shows the participants and no of schools.

Sl. No.	Educational Districts	No of Schools	No of Teahers trained
1	Bagalakote	65	208
2	Ballari	50	172
3	Belagavi	45	154
4	Bengaluru North	38	126
5	Bengaluru Rural	31	111
6	Bengaluru South	49	160
7	Bidar	44	144
8	Chamarajanagara	45	172
9	Chikkaballapura	77	276
10	Chikkamagaluru	67	222
11	Chikkodi	63	231
12	Chitradurga	36	124
13	Dakshina Kannada	58	223
14	Davanagere	50	182
15	Dharawada	72	248
16	Gadaga	52	154
17	Hasana	95	311
18	Haveri	55	194
19	Kalburgi	57	162
20	Kodagu	40	137
21	Kolar	37	119
22	Koppala	20	64
23	Madhugiri	36	121
24	Mandya	66	227
25	Mysuru	73	249
26	Raichuru	54	165
27	Ramanagara	46	153
28	Shivamogga	77	270
29	Sirsi	14	45
30	Tumkuru	62	216
31	Udupi	91	357
32	Uttara Kannada	14	50
33	Vijayapura	54	193
34	Yadgiri	16	50
	TOTAL	1749	5990

Course Content :

NCERT-CIET Developed ICT Curriculum for Teachers – Refreshers- 1

Session 01: Check yourself- Entry level questionnaire
Session 02: ICT Initiatives in India
Session 03: ICT in Education : Introduction
Session 04: Know your context
Session 05: Content Attributes and scope of using ICT
Session 06: Handson activity
Session 07: ICT and Innovative methodologies
Session 08: Handson activity
Session 09: Exploration of ICT tools and resources
Session 10: Handson activity
Session 11: Development of e-resources
Session 12: Handson activity
Session 13: Visual resources in Education
Session 14: Handson activity
Session 15: Audio Resources & Education
Session 16: Handon activity
Session 17: Multimedia (Interacts) resources & Education
Session 18: Handson activity
Session 19: Exploring Subject specific tools & techniques
Session 20: Handson activity
Session 21: Multimedia (Animation) resources & Education
Session 22: Handson activity
Session 23: Social media and Mobile Apps for Education
Session 24 : Handson activity
Session 25: Multimedia (Video) Resources & Education
Session 26: Handson activity
Session 27: Evaluation of e-resources
Session 28: Handson activity
Session 29: Integration of ICT in classroom practices - Process, Models
Session 30: Handson activity
Session 31: Designing ICT Integration Session Plan
Session 32: Handson activity
Session 33: Development of resources - Handson activity
Session 34: Mock practice
Session 35: Share your feedback
Session 36: Share your experience

In this Refreshers-1 course each participant will learn collaborative work, writing ICT based session plan. ICT based lesson plan, exploring subject specific tools, exposure to online tools, FOSS tools, using social media for educative purpose, creation and evaluation of e-resources, basics of animation.

Induction-1 training for DIET Faculties:

147 DIET Faculties / DSERT Faculties given Induction-1 training. The details of DIET faculties who got induction-1 is as follows

S N	DIET Name	No. of Lecturers got Training in 2018-19 Batch-1	No. of Lecturers got Training in 2018-19 Batch-2	No. of Lecturers got Training in 2018-19 Batch-3	No. of Lecturers got Training in 2018-19 Batch-4	No. of Lecturers got Training in 2018-19 Batch-5	Total
1	Bagalakote	1	1	1	0	0	3
2	Belagavi	1	1	1	5	0	8
3	Chikkodi	0	1	0	0	0	1
4	Dharawada	1	1	1	1	5	9
5	Gadaga	1	1	0	0	0	2
6	Haveri	4	2	0	1	0	7
7	Uttara Kannada (Kumta)	1	1	1	1	0	4
8	Sirsi	0	0	0	0	0	0
9	Vijayapura	1	1	0	0	0	2
10	Bengaluru North	0	0	1	1	0	2
11	Bengaluru Rural	1	0	2	0	0	3
12	Bengaluru Urban	1	2	1	1	0	5
13	Chikkaballapura	2	1	1	1	0	5
14	Chitradurga	1	1	2	0	0	4
15	Davanagere	0	2	3	0	0	5
16	Kolara	0	1	1	0	0	2
17	Tumakuru	3	2	2	2	0	9
18	Madhugiri	1	1	1	0	0	3
19	Ramanagara	1	3	1	0	0	5
20	Shivamogga	1		1	6	0	8
21	Ballari	0	1	1	1	0	3
22	Bidar	1	1	0	0	0	2
23	Kalaburagi	1	0	1	0	0	2
24	Koppala	1	1	1	0	0	3
25	Raichur	1	1	1	0	0	3
26	Yadagiri	1	0	1	1	0	3
27	Chamarajanagara	1	2	3	2	0	8
28	Chikkamagaluru	1	1	2	2	0	6
29	Dakshina Kannada	1	0	0	2	0	3
30	Hasana	1	2	1	2	0	6
31	Kodagu (Kudige)	1	1	0	1	0	3
32	Mandya	1	2	0	1	0	4
33	Mysuru	0	0	1	1	0	2

34	Udupi	0	1	1	1	0	3
35	DSERT, Bengaluru	6	2	1	0	0	9
State Counts		38	37	34	33	5	147

The details of training batches are as follows

No. of Lecturers got Training in 2018-19		
Batch-1	April 2018	38
Batch-2	May 2018	37
Batch-3	November 2018	34
Batch-4	December 2018	33
Batch-5 (in DIET Dharawada)	February 2019	5

Training analysis:

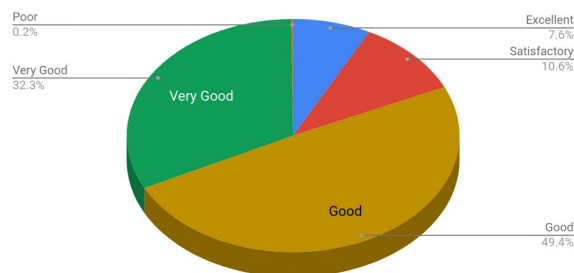
Based on the feed back got by participants following conclusions were drawn.

1. Computer lab status



By this we can infer as computer lab is in good condition

2. Effectiveness of Resource persons in demonstration and Hands on session:



Resource persons are participating effectively in the training programme

3. participation of the trainees in the training:



The participation of trainees is very good and they understood all the concepts which taught during the training.

4. Food and accommodation provided during the training :

Food and accomodaton provided during the training is good



5. overall rating about training:

Teachers attending this training with great enthusiasm and they are keen to learn ICT. They understand the fact that with the use of ICT one can grasp the concentration of students and achieve good teaching-learning progress.



Many of the teachers giving their feedback as Training is very beneficial and useful and many of them are telling that they need more training like this which can enhance their professional development.

By this we can conclude that This training is very good and very much helpfull in enhancing teacher's professional development. So overall we can say that this training is successful at DIET level as well as at state level.