

I. TEACHER TRAINING

Plan Write up

During the year 2007-2008 an amount of Rs. 45 lakhs was earmarked for the component of Teacher Training. Training for teachers both vocational and non vocational has been conducted and the entire amount has been utilised for the purpose.

During the year 2008-2009 an amount of Rs. 1,39,50,730/- has been earmarked for Teacher Training component. Accordingly Cluster meeting, TNA training for Group I subjects viz; Computer Science, CA, MRRTV, R & AC, MRA, MR2W3W has been conducted in association with government agencies. TNA and Content Based Training have been conducted for Group II Agricultural subjects and Fisheries. Under Group III and IV category TNA and Content Based Training was conducted to all subjects through KITTS.

During the year 2009-2010 an amount of Rs.80,50,000/- has been kept aside for teacher training component. With the above amount, cluster meetings, TNA and Content Based Training to the remaining subjects will be conducted and the Department expects maximum utilization of the amount before the end of the financial year.

During 2010-2011, the Department proposes to continue the cluster meetings under the leadership of Assistant Directors of Regional Offices.

Since recruitment of teachers through PSC is still ongoing training to the fresh recruits in their subjects concerned will have to be given. Re-training and updating training on the developments in the respective fields should also be given to all subjects in a phased manner. Hence it may be continued during 2010-2011 also.

The teachers who undergone the training has to be got assessed for evaluating the success of the training. The training agency is also to be assessed for their quality of training and the methodology of imparting the training. The assessment is proposed to be conducted by an agency which is not involved in the training programme.

BUDGET- 2010-2011 (Tentative)

A)	Cluster Meeting	
	For One Cluster Meeting	Rs. 70,000/-
	Total Number of Cluster proposed	5 nos.
	Total expenditure 5 x Rs. 70,000	Rs. 3,50,000/-
B)	Training to Newly Recruited teachers	Rs. 11,86,000/-
C)	Re-training- Content based –refresher Training (Vocational and Non Vocational Teachers training 42 courses)	
a)	No. of days – 3 days (Vocational Teachers)	Rs. 10,41,400/-
b)	No. of days - 5 days (Non Vocational Teachers along with HSS teachers)	Rs. 10,00,000/-
c)	Lab Assistants and Instructors	Rs. 5,00,000/-
d)	Assessment of teachers and agencies	Rs. 5,00,000/-
	Total Estimate	<u>Rs. 55,00,000/-</u>

II CAREER GUIDANCE AND COUNSELLING

Plan Write up

Career Guidance and Counselling is an integral part of curriculum activities of the Vocational Higher Secondary Education in Kerala. Now the Career Guidance and Counselling activities are effectively undergoing in all the VHS schools in the State under the supervision of Regional Offices and Directorate.

Under the scheme 14 components are visualised and a total amount of Rs. 22,30,000 /- has been earmarked during the year 2009-10. As per GO (Rt) 3821/09 dated 10.09.2009 as per Minutes dated 19.10.2009 letter No. 28887/SC3 of General Education Department the above components are sanctioned and are being implemented. The Department expects, complete utilization of the amount earmarked for the 14 components before the end of the March 2010.

During 2008-2009 an amount of Rs. 24,08,000/- has been sanctioned by the Government. Accordingly Career Guidance Counselling activities were carried out utilizing an amount of Rs. 20,48,000/-.

Since Career Guidance and Counselling activity is widely acclaimed as an important yardstick to draw the attention of the public and parents, in order to attract more potential students to the different courses in vocational subjects and also for paving way to provide avenues for the pass outs in industrial and service sectors, it is found indispensable to continue the programme more effectively in the coming years.

Just like the last two years the major components or activities proposed be implemented in 389 schools are Counselling Classes by outside experts, training to Career Masters and Award to Best schools in Career Guidance activities. In addition to the regular activities certain special programmes are also be visualised. Starting of Reading Corners and maintenance of Reading Corners and equipping the Reading Corners in each school with a English and Malayalam Newspapers, Career Publications, Govt of India Publication viz; YOJANA, Govt. of Kerala publication viz; Thozhilshema Rangom and other publications relating to each course and Quarterly publication of **VHSE NEWS BULLETIN** and Honorarium to temporary Staff engaged in Career Guidance Counselling Cell in the Directorate and Regional Office are also included.

In addition to the above, Media and sponsored Programmes through AIR and Doordarshan are also proposed to be conducted during 2010-2011.

Regarding the betterment of counselling and Media programmes short notes are embedded as under.

a) Counselling classes to VHS students by utilizing the services of the Counselling Experts engaged in the AIDS Control Society of Kerala

It has been noticed that, now a days the students evade from their studies and as a result, suicidal attitudes are being developed in their mind due to various reasons such as problems in teen-age, domestic, social and likewise negative attitudes. Efforts are there to bring them back to studies by motivation through counselling classes. This aspect has been successfully experimented in the VHS Department by providing counselling classes through the activities of CG & C in all the 389 schools. For the coming year, it has been planned to render the counselling service by utilizing the services of the professionals engaged in the AIDS Control Society of Kerala.

Accordingly 2 counselling classes in each school - one in the first term and other in the last term are proposed to be conducted.

An amount of Rs. 2000/- each for each school is proposed for the same. Thus the total estimated expenditure for the programme is 7,78,000/- (Seven lakhsseventy eight thousand only)

b) **Awareness Programmes through Government News Media like Doordharshan, AIR etc. for publicity and creating and impetus among public to the Vocational Higher Secondary education.**

Though VHS is qualitative and job-oriented educational programme and also having vertical mobility for higher education, most of public is still ignorant on this stream. In order to overcome this, awareness programmes through print and electronics media have been conducting for the last 3 years. Last year an awareness programme containing 10 episodes was broadcast through All India Radio, Trivandrum as part of Thozhilaimandalam titled **VHSE THOZHILALIMANDALAM**. The programme was a great success and the same was lauded by the public.

For the coming year it has been planned to telecast one documentary on VHSE through Doordharshan and also broadcast two documentaries through AIR containing 10 episodes each.

An amount of Rs. 1.5 lakhs is proposed to be earmarked for the purpose in the Annual Plan 2010 -2011.

Tentative Budget for 2010-2011

Programme components proposed	14 nos.
Total expenditure estimated	<u>Rs. 50,00,000/-</u>

III. SUPPORT TO ACADEMICALLY WEAKER STUDENTS

Plan Write up

During the last two years Remedial Coaching Classes were conducted in schools where results are below 50% in the Annual Examinations.

Remedial Coaching Classes were conducted in schools with well defined schedule. As a result during the year 2008-2009, out of the 62 schools 54 schools improved their results. All the stake holders widely welcomed the scheme and the economically marginalised students were provided with snacks during the course of remedial coaching classes.

During the year 2009-2010, only 22 schools come under this category. This year also proper planning and modalities are framed for the proper implementation of the scheme. We hope to wipe out the scheme by the end of this year because we expect all the schools to achieve above 50% results or grade in the coming annual examination March 2010.

During the year 2010-2011, the Department is planning to conduct a scheme named "**Support to Academically weaker students**".

The scheme is designed as follows:

All the students admitted in First year VHSE classes will be administered with an Entrance Test at the beginning of the classes. Test materials will be developed and conducted by the subject teachers concerned. The performances which fall below D+ Grade will be brought under the scheme.

After conducting the test the Principal should forward the list of the students with their scores in each subject along with specific programmes for their uplift. Based on the data available Directorate level planning will be conducted for the distribution of study materials including subject CD's, amount for refreshment to students and other financial involvement which are inevitable for the successful implementation of the scheme.

BUDGET - 2010-2011 (Tentative)

a)	Approximate Number of students who come below D+ Grade	10,000 nos.
b)	No. of days covered under the scheme (2nd Saturdays & other holidays)	15 days
c)	Refreshment @ Rs. 20/- per day per students (20 x 10,000 x 15)	Rs. 30,00,000/-
d)	Awareness class to students & parents on the scheme	Rs. 1,00,000/-
e)	Classes for the subjects to which Academic support needed (English, Maths, Physics, Chemistry & Biology) (5 subjects, 5 teachers, approximately 150 schools) (5 teachers x 150schools x Rs. 200 per day x 15 days)	Rs. 22,50,000/-
f)	Expert classes (4 classes x Rs. 500/expert x150 schools)	Rs. 3,00,000/-
g)	Monitoring	Rs. 50,000/-
	Total	<u>Rs. 57,00,000/-</u>

IV. ON THE JOB TRAINING

Plan Write up

During the last two years, as an academic support system, the activity of OJT was conducted in a successful manner in all the 389 VHS schools. The scheme proposes to provide ample opportunity to the students to get awareness on the actual working environment in the industry and to understand its practices.

As an on-going scheme, which helps the students to experience latest technologies and developments in their respective courses in the industries concerned, it must be continued during the year 2010-2011 also. It is also proposed that the training may be briefly documented for its evaluation and assessment.

BUDGET 2010-2011 (Tentative)

a)	Actual Bus fare (Rs. 35 per student for 10 days)	Rs. 350/-
b)	Total number of schools	389 nos.
	Total number of batches	1100 nos.
	Total number of intake in a batch	25 nos.
	Total number of students	27,500 nos.
	Total expenditure for Bus fare (27,500 x Rs. 350)	Rs. 96,25,000/-
c)	Industrial Expenses, if required	Rs. 3,00,000/-
d)	Assessment of the Students with the help of Industrial experts	Rs. 5,00,000/-
e)	Documentation of the programme	Rs. 5,00,000/-
	Total Expenditure for the programme	<u>Rs.1,09,25,000/-</u>

V. PRODUCTION CUM TRAINING CENTRE

Plan Write up

Production cum Training centres are an inevitable part of vocational curriculum which enhances vocational competency among the students. It provides an opening for employment opportunities by delivering more skilful and job enriched manpower.

The knowledge and skills of the students in a particular vocation which they have learned and achieved through the two year course can be made useful for the larger interest of the community. This would facilitate school-industrial linkage, provide experienced manpower to industry, develop confidence and self reliance, develop the capacity to earn-while-learning, promote entrepreneurial values and competency among students and to provide practical skill in real work situations.

The PTC will also act as a nodal agency for planning, implementing, co-ordinating and monitoring the training activities of students. Hence, it is proposed to establish Production Cum Service Training Centres in selected schools in the state.

During the year 2006-07 an amount of Rs.26,96,172/- was spent for the establishment of PTC's and 61 schools were benefited out of this. During the year 2007-2008, an amount of Rs.22,90,441 /- were distributed to 56 selected schools for the smooth functioning of Production Cum Service Training Centres. In 2008-09 an amount of Rs. 61,36,809/- had been distributed to 11 Govt. schools according to their proposals which was scrutinised and vetted by an expert team for starting Model PTC's. For the academic year 2009-2010, an amount of Rs.46 lakhs has been provided under the scheme. The Project proposals received from various schools through the Assistant Directors will be scrutinised and vetted with experts in the respective fields and selection will be made accordingly. The Department expects complete utilisation of the amount earmarked for the same in the year 2010-2011 .

During 2010-2011 the Department propose to establish Production cum Training Centres in 15 new schools.

BUDGET 2010-2011 (Tentative)

a)	Selection of projects for PTCs after vetting	15 projects
b)	Assistance @ of Rs.10,00,000/- per school for 15 new PTC's	Rs. 1,50,00,000/-
c)	Workshops for assessment & vetting the proposal	Rs. 3,00,000/-
	Total	Rs. 1,53,00,000/-

VI. RESOURCE PRODUCTION CUM TRAINING CENTRES / COMMUNITY LABS

During 2010-2011 the Department propose to convert selected schools to Resource Production cum Training Centres or Community Labs.

To illustrate, there are more than 50 VHS schools in which MLT courses are offered. These schools were having the medical lab facility, which can be extended to the community. These Schools can act as Community Labs so that the general public can utilise the service at a very low rates. Like wise other courses in which a community benefit can be offered will also be identified.

BUDGET 2010-2011 (Tentative)

a)	Number of projects for Resource PTCs or Community Labs proposed to be selected	10 projects
b)	Assistance @Rs. 10,00,000/- per school proposed for 10 schools	Rs. 100,00,000/-
	Total	Rs. 1,00,00,000/-

VII. SURVEY

Plan Write up

Implementation of any activity whether academic or infrastructural development in an institution depends on clear planning and survey. Without proper planning and survey we cannot assess the exact requirements and facilities needed in a particular institution.

In 2003 the department had initiated steps and conducted a preliminary survey in all VHSE schools in the state. It has been documented. After a lapse of six years the requirements have changed a lot. In order to get an up-to-date data of the materials and above all the infrastructural facilities of an institution, a complete and full fledged survey with video documentation is highly necessary.

Aims and Objectives

- ❖ To collect complete details of the infrastructure of the schools and other institutions under VHSE.
- ❖ To collect the proper name and address of near by institutions, where OJT can be conducted and one year apprenticeship and placement may be given.

In order to conduct the survey properly, resource persons for the same have to be identified.

BUDGET 2010-2011 (Tentative)

Total number of VHSE Schools	389
Expenditure estimated for the Survey by selected teachers and experts under seven Regional Office	Rs. 2,00,000/- per region
Total Expenditure	Rs. 14, 00, 000/-

VIII ONE YEAR ON-THE-JOB TRAINING FOR INTERESTED STUDENTS

Plan Write up

Most of the VHSE students complete their course before they attain the age of 18. Usually industries recruit apprentice only after the completion of 18 years due the restriction of labour laws and other security measures. Hence, the intervening period of one year till they achieve the age of 18 is really a waste to these students. Some of them go for vertical mobility in order to avoid that loss. Most of the students prefer to undergo conventional courses like B.Sc, B.A., B.Com, etc. Hence, the Department aims to devise a scheme for retaining the students in vocational fields by opening opportunities of employment in the courses they have studied. As part of the curricular activities only 10 days of OJT ie; Training in industries is followed in all schools in state for the 2nd year students.

From the year 2010-2011 onwards, the department proposes to provide one year on the job training to all interested pass outs. It may be conducted in consultation with industries concerned. It is proposed that a stipend of Rs. 1000/- may be given to each student of which 50% of the expenditure is to be borne by the industries concerned, as they are also getting the benefit. The remaining 50% has to be met under the state plan funds.

Total numbers of VHS schools	389
Total numbers of batches	1100
Total number of students – 1100 x 27	29700
Expected no. of pass outs @ 85% ie; 29700x 85%	25245
Total no. students to be trained 25%	6312

It is presumed that 75% pass outs will opt for higher studies or other courses. Hence the remaining 25% may be retained in the vocational stream itself by providing one year on the job training.

BUDGET 2010-2011 (Tentative)

Stipend @ Rs. 500 /- per student for 9 months for 6312 students- **Rs. 2, 84, 04, 000/-**

IX PRINTING OF PRACTICAL MANUAL

Plan Write up

During the years 2008-2009 Practical Manual (Handbook for VHSE teachers and Instructors) for 42 subjects were prepared through different workshops with experts and selected vocational teachers and instructors of 42 different subjects.

The copies of the prepared Practical Manual were submitted to the Curriculum Committee for approval. On receipt of their approval, Practical Manuals have to be printed and distributed to all 389 schools and teachers in the State. The Department proposes to print and distribute the same during the financial year 2010-2011.

BUDGET 2010-2011 (Tentative)

a)	Total number of Schools	389
b)	Total no. of teachers & Instructors	2200
c)	Total no. of copies to be printed (approx.)	3000 nos.
d)	Approximate cost of printing	Rs. 5,00,000/-
e)	Approximate cost of distribution	Rs. 50,000/-
	Total amount	Rs. 5,50,000/-

X. SINGLE WINDOW SYSTEM

Plan Write Up

From the academic year 2010-2011 onwards the admission to vocational courses will be through Single Window System on a par with the admissions to higher secondary courses.

The proposal for starting Single Window System with all details including the name of course, the school under which courses are functioning are forwarded to National Informatic Centre, Trivandrum for developing Software. It is expected that NIC will submit the same to this Department by the end of December 2010. On receipt of the same, training should be imparted to Principals, academic heads, selected vocational teachers and clerks of all VHSE schools in the State.

BUDGET 2010-2011 (Tentative)

I	Modification and existing software and other accessories - amount to NIC	Rs. 5,00,000/-
II.	Training to staff of the Directorate (one superintendent + 6 clerical staff)	7 nos.
a)	Region-wise staff of seven regional offices 7 x 4	28 nos.
b)	Training to the Principals & staff of 389 schools - 2 from each school	778 nos.
c)	Total no. of staff to be trained	813 nos.
d)	Expenditure for the training including TA & DA - @ Rs. 2000/- per head X 813 participants	Rs. 16,26,000/-
e)		

XI ID CARDS

Plan Write up

The department proposes to issue laminated identification cards to all teachers and non teaching staff of 389 schools in the State. All officers and ministerial staff of this department will also be given ID Card. The Department wish to implement this scheme during 2010-2011. The ID cards will designed in a common format and the same with be prepared and distributed through the Regional Offices.

BUDGET 2010-2011 (Tentative)

a)	Total no. of staff to whom ID cards are to be issued	6413 nos.
b)	Cost per card	Rs. 30/-
c)	Total expenditure (6413 x 30)	Rs. 1,92,390/-
	Expenditure rounded to Rs. 2 Lakhs	Rs.2,00,000/-

XII STARTING OF DIPLOMA COURSES

Plan Write up

In order to give academic prospects to the students in the courses they are studying, it is better to start Diploma Courses. A survey may be conducted to assess the possibility of starting the Diploma Courses with the help of related industries. They should identify the schools, courses and all other details and prepare a project. It is proposed that the survey shall be conducted through the agencies having expertise in the related branch of study. The agencies identified are KITCO for engineering and technology subjects, Kerala Agriculture University for agriculture subjects, KITTS for commerce and management subjects, Sree Chitra Institute of Medical Sciences for para medical subjects, Fisheries Department for courses relating to fisheries and ATDC for other subjects. The strategy for the survey shall be developed in consultation with PSSCIVE, Bhopal. It is proposed that a visit to the nearby States where similar programmes are offered may also be conducted as part of the Survey.

BUDGET 2010-2011 (Tentative)

1. Conducting Survey for starting Diploma in association with the following institutions. ie; KITCO, KAU, KITTS, Sree Chithra Institute, Fisheries Department, ATDC etc.

Total Rs. 20,00,000/-

XIII STARTING VOCATIONAL COURSES IN SELECTED SCHOOLS

It is proposed that vocational courses may be introduced in two each of the schools identified in each district. Now the schools are offering the courses which include non-vocational courses also, which also enables the students for their vertical mobility. In order to give more emphasis to the vocational study it is proposed that the vocational courses may be introduced in the existing schools, with minimum infrastructure. Since only two courses are proposed to be introduced in each school, there will be 56 courses in the 28 schools across the state.

BUDGET ESTIMATE 2010-2011

No. of schools to be identified for introducing vocational courses @ 2 Schools in each district	28 Schools
No. of posts to be sanctioned additionally - 56 Vocational Teachers - 56 Vocational Instructors - 56 Lab Assistant	168 nos.
Financial Commitment towards the 168 posts per annum - Vocational Teachers - Rs. 17159 X 12 X 56 = Rs. 1,15,30,848/- - Vocational Instructors- Rs. 14245 X 12 X 56 = Rs. 95,72,640/- - Lab Assistants - Rs. 8758 X 12 X 56 = Rs. 58,85,376/-	Rs. 2,69,88,864/-
Expenditure for providing Class Room / Lab space 1500 Sq. ft. @ Rs. 800/- per sq.ft. for each school	Rs. 3,36,00,000/-
Expenditure towards equipments @ Rs. 5,00,000/- per school	Rs. 1,40,00,000/-
TOTAL	Rs. 7,45,88,864/-
Rounded off	Rs. 7,50,00,000/-

XIV STARTING PRACTICAL TRAINING TO COMMUNITY BASED AND TRADITIONAL SKILLS

Plan Write Up

The Department proposes to introduce Community Schools, one each in every district. The Community Schools envisages the dissemination of inherited traditional skills pertaining to a community to the needy and interested candidates. It also envisages the systematic development of the traditional skills. The Community Schools will be setup in the existing schools only.

BUDGET ESTIMATE 2010-2011

No. of Community Schools proposed in each district	14 nos.
Financial outlay proposed @ Rs. 10 lakhs for each school	Rs. 1,40,00,000/-

XV SYLLABUS REVISION AND TEXTBOOK PREPARATION

Plan Write up

The VHSE Department conducts 42 different vocational courses in 389 schools of the State. The Curriculum and syllabus of each course should be revised in accordance with the present trend and developments in the field so as to ensure that the pass outs are employable workforce suitable to the industry.

All the courses are being conducted without proper text books. The teachers depend solely on Source Books for classroom interaction. Hence, preparation of textbook is highly essential.

BUDGET 2010-2011 (Tentative)

- a) Revision of existing Curriculum and syllabus for 42 subjects Workshops (3 phases) - Rs. 50 lakhs
Printing and Distribution
- b) Preparation of textbook – Workshops (3 phases) - Rs. 50 lakhs
Sourcebook Preparation, revision of Practical Manual, printing and distribution

Total

- Rs. 100 lakhs

XVI IDENTIFICATION OF NEW COURSES

Altogether 42 different courses are being conducted in 389 schools in the State. It is observed that some courses are not relevant with the present need of the industry and hence need to be revised or replaced. Hence, a detailed survey should be conducted to assess the relevancy of the courses conducted in each and every school.

Due to the development of new and innovative technology new areas of vocation also evolved, in which there is heavy demand for the skilled workforce in the industry. Hence new courses should be identified and developed according to the need and requirements of the industry and society and in accordance with the technological changes in the local as well as the global scenario.

BUDGET ESTIMATE 2010-2011

Survey on relevance of the existing courses and identification of new courses in accordance with the industrial demand - **Rs. 5 Lakhs**

XVII TRAINING TO MINISTERIAL STAFF

Plan Write up

Training to Ministerial staff is highly necessary in order to acquaint them with modern trends in official procedures, new schemes, programmes etc. Moreover computer training may also be imparted to ministerial staff for the speedy disposal of programmes. This training may be conducted through IMG.

BUDGET 2010-2011 (Tentative)

Total number of staff	- 673
Cost of Training @ Rs.2000/-	- 673 x 2000 = Rs. 13,46,000/-

XVIII. DEVELOPMENT OF RESEARCH ATTITUDE AMONG TEACHERS

Plan Write up

Vocational teachers, non vocational teachers, GFC teachers and vocational Instructors are the major stake holders of the Department. In order to tap their potentials they may be directed to do action research or researches in their field of work, in order to boost up their enthusiasm and to retain them in the same field. Research mentality should be developed and best research activity should be awarded. Assistant Directors should select the teachers through a preliminary test. The actual research work and its duration are to be fixed by the Assistant Director concerned.

The Department proposes to implement the scheme among all the teachers in the Department in phased manner. As a pilot strategy, it is proposed that at least 250 teachers may be included in the scheme, during the year 2010-2011. It is proposed that they may be provided with an incentive of Rs. 1000/- per month and TA/DA as per Rules.

BUDGET ESTIMATE 2010-2011

Financial Support for providing incentive @ Rs. 1000/- per month for 250 teachers for a period of 10 months	Rs. 25,00,000/-
TA/DA @ Rs. 500/- per month for 250 teachers for 10 months	Rs. 12,50,000/-
Total expenditure estimated	Rs. 37,50,000/-

XIX. MODERNISATION OF DIRECTORATE AND REGIONAL OFFICES

Plan Write up

In order to ensure proper and effective communication and linkage with, the 7 regional offices, the examination wing and Directorate, it is proposed that the offices may be equipped with modern machines for the smooth functioning of this Department. Outdated machines should be replaced with purely new and efficient equipments.

BUDGET ESTIMATE 2010-2011

Directorate, Regional Offices & Exam Wing - **Rs. 20 lakhs**

XX FINANCIAL AID TO STUDENTS IN PERFORMING ARTS

Plan Write up

The Youth Festivals of VHSE and Higher secondary are unified and conducted in a combined manner under the General Education Department. The participation of VHSE students is very few and performances of VHSE students in performing arts are very pitiable. Since majority of the VHSE students belongs to poor strata of society, they may be uplifted. Most of the parents are unable to bear the cost of costumes which are required for performing arts. It is helpful to lend a helping hand to the parents of the poor students by way of financial support. This will also trigger their enthusiasm for learning. The major performing arts to which financial help is needed are Bharatanatyam, Kuchipudi, Mohiniyattom and Nadodi Nithram. School level committee consisting of PTA members and members of the local bodies should identify the needy students.

BUDGET ESTIMATE 2010-2011

Approximate number of students to be benefited under 7 regional offices	70 students
Rs. 7000 per student per year x 70	Rs.4,90,000/-

XXI FINISHING SCHOOL.

The concept of finishing school is to equip a passed out candidate to be fully competent in his/her course of study. In the finishing school, the candidate will acquire post qualification training both in theoretical and practical areas of his subjects. Fruitful liaisons with related industries or service sectors in the field will be beneficial to the candidate too. On coming out of the finishing school after completing a year , a student is expected to perform skilled jobs in accordance with his/her course independently in an excellent manner.

At present there is no such finishing school in Kerala for the VHSE. Establishing new finishing schools under VHSE is found to be expensive. Hence it is proposed that institutions which are having sufficient facilities and resources in each area of vocational study may be identified for the purpose and the students may be given training in these institutions. The institution may be remunerated for the purpose. The Department proposes to conduct the training in selected engineering colleges in the State for the courses on Engineering and Technology. An amount of Rs. 50 lakhs is proposed for imparting Finishing School training to the students in such institutions.

BUDGET ESTIMATE 2010-2011

Training Cost to the institutions identified as the Finishing School - **Rs. 50 lakhs**

XXII Development of MULTIMEDIA TOOLS IN SCIENCE AND TECHNOLOGY SUBJECTS

Plan Write Up

The convergence of media and technology in a global culture is changing the way we look at knowledge and challenges the very foundations of education.

We know that in science education critical thinking is very important for the construction of knowledge through interaction, animation, visualization of ideas etc.

Multimedia has been rapidly used in developing visualization tools which helps the user in experimental interaction, thereby greatly enhancing the overall impact and providing intuitive link between the computer and users.

Developing multimedia tools shall help

- ❖ To visually demonstrate scientific ideas and concepts
- ❖ In directing students' attention away from complex systems and focus on important components.
- ❖ Consider limitations of cognitive load.
- ❖ To present non-linear and interactive system to develop adequate knowledge structure.
- ❖ In using multimodality
- ❖ To present relevant case studies.
- ❖ To connect students with places of importance otherwise inaccessible to them.
- ❖ To provide common experience shared by all

It is highly relevant in developing computer based teaching-learning aids for interaction in the class rooms of Vocational Higher Secondary Education (VHSE) students. The department looks upto vocational courses which make use of applied sciences through interactive CDs and simulated experiments to enrich class room activity, to enable active and constructive learning.

It is proposed to develop interactive CDs in three branches viz.

1. MRDA
2. MLT
3. Agriculture

Advantages:

1. Provides a safe environment within which students can test hypothesis and study outcomes.
2. Use of software at any convenient time for reinforcement and self assessment.
3. Instructor-demonstrator contact time can be diverted to other tasks.
4. The use of machinery, equipment and accidents can be avoided.
5. Eliminates the need for physical sets of specialized or expensive lab equipment, chemicals or materials.
6. Can be used repeatedly and thus enhancing learning and understanding.
7. Experience dynamic real time motion of parts of equipment which is otherwise difficult to visualize.

8. Can experience and understand function of organs, nature and size, interconnectivity etc. which are otherwise difficult to visualize.

I. MRDA

Preferred subject Areas

From among the following any area(s) shall be chosen according to its importance, complexity, application, cost considerations etc.

- a) Simulated experiments of circuits.
- b) Functioning, dismantling of equipment, care, trouble shooting procedure etc.
- c) Wiring
- d) Digital Electronics
- e) Computer hardware maintenance
- f) Measuring instruments

II. MLT

Preferred subject Areas:

From among the following any area(s) shall be chosen according to its importance, complexity, application cost considerations etc.

- a) Anatomy, Physiology
- b) Micro biology
- c) Parasitology
- d) Lab ethics
- e) Haematology
- f) Clinical Pathology
- g) Immunology/Blood banking
- h) Bio chemistry
- i) Bio chemical test procedures
- j) Histopathology/Cytology

III. Agriculture

Preferred subject Areas:

From among the following any area(s) shall be chosen according to its importance, complexity, application, cost considerations etc.

- a) Vegetative propagation methods
- b) Soil sampling
- c) Processing
- d) Application of manure
- e) Pests/Diseases/Symptoms
- f) Tissue Culture
- g) Gardens/Orchards
- h) Variety of plants
- i) Lawn making etc.

Note: The subject areas shall have further deviations after due assessments by the experts and teachers.

METHODOLOGY

1. Develop a story line/script and production scenario.

A team consisting three experienced and competent teachers, two experts from Universities /Research institutions/Engineering/Technology/Paramedical institutes and one or two competent animation/graphics experts drawn from VHSE (if available) shall be constituted for each subject. Two day workshops on four different occasions within a particular span of time shall be conducted and a detailed script shall be created. The created script shall be submitted to the concerned agency. A detailed discussion with the agency shall be conducted regarding the possibilities of implementation of the script with the assistance of animation/simulation experts of the agency and necessary changes/amendments shall be made, which shall be approved by the committee.

2. Record the tutorial/Developing the animation/Graphics/Video graphing etc.
3. Digitize the recording
4. Edit the recording

Estimate:

Most of the contents of CD/DVD shall be a mixture of lecture, video, animation (2D/3D or both) as the nature of the subject area may be. A mixture of all these shall make the CD/DVD an effective communication tool in the class room environment. It is informed that the market rate for developing such a CD shall be Rs. 30,000 to Rs. 40,000/minute

Note: The cost may vary according to the extent of 3D/2D animation requirement for a CD depending on the nature of subject area taken. CD's of more time duration/more no. of CD's can be developed based on the nature of content development as proposed by the committee.

Contact Agencies/Persons:

1. TOONS,VISMAYA MAX,
2. HIBISCUS
3. Mr. Ajith, VICTERS
4. Mr. Sunil, IT @School
5. C-DIT

BUDGET ESTIMATE 2010-2011

TA/DA for committee members/Food/Accommodation/honorarium			
for 10 subjects	=	Rs. 5,00,000	
Development of Softwares/Animation/Video graphing and related expenses			
	=	Rs. 7 lakhs/subject	
" for 10 subjects	=	Rs. 70 lakhs	
Total Estimated Cost	=	Rs. 75 lakhs	

XXIII MODERNISATION OF COMPUTER SECTION OF EXAMINATION WING

Plan Write Up

The existing facility in the computer section of the examination wing was tuned to the requirements of 2nd year Annual and SAY examination conducted in an academic year. From the academic year 2008-2009 onwards there are radical changes in the examination system such as introduction of 1st year annual examination and improvement examinations. As the first year annual and 2nd year annual examinations conducted simultaneously and on the introduction of double entry system for verification of scores to reduce wrong entries, the available facility has to be improved to cope up with the demands for which additional resources have to be required.

Objectives

1. To improve the internal infrastructure on the introduction of additional examinations
2. To facilitate double entry system from this year onwards
3. To provide facilities for engaging more system operators
4. To improve the security measures in the computer section of examination wing
5. To improve the accuracy in publication of results

Estimate

SL.No	Item	Quantity	Price (Rs)
1	Printer (XEROX Workcentre 7242) with A3 scanner add on	1	3,50,000
2	Dell PC with Windows 7 Enterprise Edition OS	5	2,00,000
3	Dell Laptop	1	70,000
4	LCD Projector (SANYO PLC XU87)	1	80,000
5	Networking	120 mtrs	5,500
6	Chair	5	20,000
7	Chair without backrest	5	10,000
8	Kaspersky Internet Security 2010	15 license	15,000
		Total	7,50,500

XXIV PURCHASE OF DELIVERY VAN FOR EXAMINATION PURPOSE

Plan Write Up

The lone delivery van which was available with the Examination Wing of this Directorate (No: KL-01-A-5697), was in uneconomic condition and had completed 16 years after registration. It was handed over to Govt: VHS & THS, Krishnapuram, Alappuzha complying with the orders (G.O. (Rt.) No: 4613/08/G.Edn., dated: 18/10/2008). The volume of materials to be transported to the different schools of the State has multiplied on the introduction of First Year Public Examinations and subsequent Improvement Examination, thereby the number of Public Examinations conducted by this office has come up to four viz.

1. First Year Annual Examination in March
2. Second Year Annual Examination in March
3. SAY Examination in June
4. First Year Improvement Examination in August

This implies that the work related to the conduct of examinations which was confined to a part of a year is now extended all over the calendar year.

The examination process involves transportation of Answer Books, Additional Sheets, Question Paper Packets, forms for the utilization in both schools and Centralised Valuation Camps, shifting of valued answer scripts, distribution of question papers etc. For the year 2008 -2009 alone, this office has paid an amount of Rs. 1.5 lakhs on account of hiring charges to the Postal Department. It is expected to go up further on the introduction of First Year and Improvement Examinations. The Postal Department has only one covered vehicle which is of 2.5 tonne capacity and it is provided @ Rs. 13/ per km & Rs. 17/per km. There are several occasions when the weight of materials to be transported are below 1 tonne for which the same vehicle has to be hired at the same rate, which is uneconomic from Government point of view.

There were several occasions when the Postal Department failed to meet the demand of this Department by not providing the vehicle at the right time. As this is a time bound activity and considering the number of examinations, this may adversely affect the progress of examination activities. On evaluating the whole process involved

in the conduct of examinations, it is proposed to purchase a van exclusively for the utilization of the Examination Office of this Department.

In this connection, it is also informed that new creation of post of Driver is not required for the vehicle because there is already a sanctioned post of Driver in the Vocational Higher Secondary Examination Office and a regular hand is working against this post.

Based on all the facts explained above, budget allocation may be made for the year 2010 - 11 to purchase a covered delivery van exclusively for the Examination Office of Vocational Higher Secondary Education.

BUDGET ESTIMATE 2010-2011

Capacity of the van 4 tonne

Estimated cost of **Rs. 10,00,000/-**

XXV WORKSHOP FOR QUESTION PAPER SETTING

42 VOCATIONAL SUBJECTS AND 2 NON-VOCATIONAL SUBJECTS (GFC AND MANAGEMENT)

Plan Write Up

Preparation of questions to evaluate the level of acquired knowledge of the students is truly demanding and at the same time creative too. The evaluator should have good application of mind, varied thinking and she/he should be able to open up the mind to draw in every indication of mental process which a student has gone through. Ultimately it is a sublime act.

There is acute shortage of trained question paper setters in this department. Also the examination office receives several complaints such as, a few of the questions are repetitive in nature and do not comply with the methodology and philosophy of Continuous Evaluation and Grading Scheme etc.

As the new system has brought in exhaustive changes in various aspects of teaching and evaluation process, and there is paradigm shift from teacher centric to student centric. The teacher has to be equipped to cope with the ground realities of both these aspects, especially that of evaluation process. In order to achieve high quality in evaluation process a residential training programme/workshop can be conducted for the teachers of 42 vocational subjects and 2 non-vocational subjects (GFC and Management) of this department. Competent teachers on each subject, subject to availability, shall be drawn from 7 regions of this department.

While learning the process of framing questions the teachers shall get an opportunity to self evaluate how they could re-equip themselves in the transaction process both in the class room and outside in moulding the students to cope up with the questions.

Objectives:-

1. To maintain quality and standard of question papers in accordance with the requirements of CEGS.
2. To increase the availability of qualified Question Paper setters in this department.
3. To increase awareness of Question Paper setting among the teachers of the department utilising the expertise of these resource persons.
4. Cluster meetings shall have more meaningful and effective sessions by introducing an area for discussion – Question Paper setting, its craft and possibilities.

5. To ensure that the students are supplied with Question Papers of the nature and methodology of learning process, which they have followed through out the academic year.

The workshop shall also incorporate expertise of 20 experienced faculties from different professional colleges for the introductory class and evaluation of Question Papers. It is also advisable to have the services of experts from PSSIVE, Bhopal to transact the new thinking and methodology of vocational evaluation conceived at national level.

Time Schedule:-

The workshop shall be scheduled for 4 days.

BUDGET ESTIMATE 2010-2011

The estimate for the conduct of training programme for 100 participants 15 officials/ 20 subject experts, 10 resource persons and 2 subject experts from PSSIVE are given below.

Honorarium for 15 Officials/10 Resource persons	Rs. 200 x 25 x 4 days	Rs. 20,000
Honorarium for 5 subject experts (Introductory & Evaluation for 2 days)	Rs. 500 x 5 x 2	Rs. 5,000
Honorarium for 15 subject experts (Evaluation work)	Rs. 500 x 15 x 2	Rs. 15,000
2 Experts from PSSIVE, Bhopal (TA/DA & Honorarium)	Rs. 40000 x 2 Rs. 2000 x 2	Rs. 84,000
Average TA/DA for Participants/Officials/Resource persons/Subject Experts	125 x Rs. 1600	Rs. 2,00,000
Accommodation	125 x Rs. 50 x 4 days	Rs. 25,000
Rent for hall	Rs. 1250 x 4 days	Rs. 5,000
Stationery	110 x Rs. 20	Rs. 2,200
Food	125 x Rs. 120 x 4 days } 20 x Rs. 120 x 2 day }	Rs. 64, 800
TOTAL		<u>Rs. 4,21,000/-</u>

XXVI APPROVAL OF SHORT-TERM VOCATIONAL AND TECHNICAL COURSES IN THE STATE OF KERALA BY ONE GOVERNMENT AGENCY

CONCEPT: “There will be no unapproved short-term vocational/technical courses in the state of Kerala.”

HISTORY:

There are many Vocational and Technical Institutes in the state of Kerala conducting Short-term courses in various disciplines. Some of the institutions are conducting courses on getting approval of the concerned education department/agency/university. Most of the institutions are functioning without the approval of any government agencies and conducting short-term courses approved and unapproved.

Though the name of some courses is the same, the scheme, syllabus, duration of courses, course fees rates etc. are varying from institutions to institutions. Some of the institutions are charging exorbitant fees rates.

Pupils who seek admission to the unapproved courses are being cheated for want of approval of courses, skeleton course content, low practical exposure and thereby denial of placement in government and private sector. The matter is a serious social issue and it is essential to interfere in the matter by government to avoid functioning of unregistered institutions and conduct of unapproved courses.

“There should have a competent government agency for registration of institutes, approval of Short-term technical and Vocational Courses and conduct of examination and Certification”

The department of Vocational Higher Secondary Education started functioning in the state of Kerala from 1983 and now conducting courses in 1098 batches in 42 different vocational streams at 389 centers all over the state with specific scheme and syllabus with necessary modifications as and when necessary. The department is also conducting examinations with specific schemes relevant to the Vocational Higher Secondary Courses and doing the certification process.

Hence the department can act as the registering authority of institutions for conducting Short-term courses, varying the duration of courses from one month to one year and the agency for approval of courses based on the uniform scheme, syllabus and design of the courses framed by the department. All the short term vocational and technical courses conducted by different government agencies may also be brought under the Department of Vocational Higher Secondary Education. The Examination wing of the department also will act as the agency for conduct of examination and certification based on the uniform scheme of examination framed according to the nature of the courses.

BUDGET ESTIMATE 2010-2011

Anticipated expenditure to materialize the Project is **Rs. 25,00,000/-**

XXVII ONLINE ISSUE OF QUESTION PAPERS – MIDTERM EXAMINATION

Plan Write Up:

The midterm examination under the department is conducted at school level. The question papers are prepared at school level and the results are announced at school level itself. Several draw backs are observed in existing procedure of the conduct of these examinations viz.

1. There is a tendency among the teachers to limit the questions within the syllabus they have taught.
2. To reduce the quality of questions to give the students more content in attempting them.
3. A large number of questions thus prepared does not comply with Continuous Evaluation & Grading Scheme.
4. Standardisation of pattern and content can not be ensured as questions are different from school to school.
5. Fails to standardize the evaluation process owing to different standards of questions.

In order to overcome all these draw backs it is advisable to conduct the examination with standardised question papers based on stipulated syllabi and in concurrence with Continuous Evaluation & Grading Scheme guide lines.

The question papers of First Year and Second Year shall be supplied online to every Vocational Higher Secondary School of the state, sufficiently in advance so that required copies can be taken confidentially at school level.

The expertise of Resource Persons/experienced teachers shall be utilized in the preparation of question papers for which remuneration shall be paid to them.

BUDGET ESTIMATE 2010-2011

Remuneration for preparation of Questions for First Year	44 x Rs. 300	Rs. 13,200
Questions for Second Year	44 x Rs. 300	Rs. 13,200
Remuneration for DTP work of question papers (44 days @ Rs. 200/- day)	44 x Rs. 200	Rs. 8,800
TOTAL		Rs. 35,200/-

XXVIII PREPARATION QUESTION BANK FOR VHSE STUDENTS

Plan Write Up:

Termination Evaluation (Theory Examination) is a part of the process in continuation of continuous evaluation process. It can not be seen as a separate identify but a part and parcel of Continuous Evaluation & Grading Scheme. The Question Papers are designed to express the experiences she/he has acquired through activities involved in the learning process. The questions should help.

1. To evaluate Different mental processes involved in learning process
2. Should suit to the requirements of curriculum objectives
3. Should be flexible enough so that students of different levels can attempt it.
4. Should be simple and easy to explain
5. Time bound
6. Do not have regular structure or fixed numbers.
7. To reduce the mental tension of students and providing relaxed mind set.

Every student in this system should acquaint himself with the questions designed to evaluate extent of knowledge and application of ideas he has acquired in an academic year. To familiarize him/her with these varied type of questions designed for this purpose would make him aware of his level of knowledge/application of ideas, his draw backs, additional of effort he has to put in and so on.

In order to facilitate the same a Question Bank shall be created exclusively for this department which shall be published in the official website of the Directorate of VHSE/Examination Wing. The teacher and student community shall have free access to this data. Periodic revision of questions by type, content, curriculum objectives, mental process etc. shall be made. Creative contributions from teacher community shall also be facilitated. Avenues for raising doubts, opinions, remarks shall also be provided while designing the site and when framing the question.

In the First phase a workshop for 42 Vocational and 13 Non-Vocational Subjects shall be conducted in one or two stages.

The workshop will incorporate the expertise of 30 experienced faculties from different professional colleges for introductory class and evaluation of questions.

Time Schedule:

The Workshop shall be conducted in 4 days.

BUDGET ESTIMATE 2010-2011

The estimate for the conduct of the workshop with 165 experienced teachers, 40 experts from professional colleges, 15 officials and 20 resource persons are as follows.

Honorarium for 15 officials and 20 resource persons	Rs. 200 x 35 x 4 days	Rs. 28,000/-
Honorarium for 40 experts from professional colleges (2 days)	Rs. 500 x 40 x 2 days	Rs. 40,000/-
Average TA/DA for participants/Officials/Resource persons/Subject experts	190 x Rs. 1500	Rs. 2,85,000/-
Accommodation	200 x Rs. 60 x 4 days	Rs. 48,000/-
Rent for Hall	Rs. 1500 x 4	Rs. 6,000/-
Stationary	165 x Rs. 30	Rs. 4,950/-
Food	200 x Rs. 120 x 4 days 40 x Rs. 120 x 2 days	Rs. 1,56,000/-
DTP charges - 20 Daily Wage staff for 55 days	20 x 55 x Rs. 200	Rs. 2,20,000/-
TOTAL		Rs. 7,87,950/-

