

## **TECHNICAL EDUCATION**

Technical Education Sector is growing rapidly as Govt. of NCT of Delhi has decided to make Delhi one of the best educational hub in the Country. Three Technical Education Universities have already been established by the GNCTD and fourth University will be set up during 2012-13 which will be Technical University for Women. Skill up-gradation is the major new programme in 12<sup>th</sup> Five Year Plan. Ambedkar Institute of Advance Communication Technology and Research (AIACTR) has started functioning from its own new complex at Geeta Colony. G.B. Pant Engineering College, Ch. Brahm Prakash Govt. Engineering College and IIIT will start functioning from their own complexes during 12<sup>th</sup> Five Year Plan. Out of Total Plan Outlay of ₹ 1458 Crore for 12<sup>th</sup> FYP, more than ₹ 800 Crore will be utilized on construction of buildings for Engineering Colleges and Polytechnics.

The financial position of XI Five Year Plan and XII Five Year plan for Technical Education is as under:

Sector	(₹ in Crore)			
	11 <sup>th</sup> Five Year Plan (2007-12)		12 <sup>th</sup> Five Year Plan (2012-17)	
	Approved Outlay	Provisional Expenditure	Plan Outlay 2012-17	Plan Outlay 2012-13
Technical Education	628.97	654.51	1458.00	202.00

### **A. DTE. OF TRAINING & TECHNICAL EDUCATION**

#### **1. Modernization of DTTE**

##### **Plan Outlay**

**XII FYP** : ₹ 600.00 Lakh

**Annual Plan 2012-13** : ₹ 80.00 Lakh

1. Directorate of Training & Technical Education is entrusted with the responsibility of providing trained technical manpower for the technological upgradation of Industrial production services, productivity and innovation, contributing to the planned growth of the country's economy. With a view to achieve the above objectives, Department strives for systematic planning, development implementation, monitoring and evaluation of programmes and policies relating to technical/vocational education linked with planned and systematic expansion of industrialization and economic growth of the NCT of Delhi.
2. Following are the major areas for strengthening of the Directorate and Community Polytechnics.
  - The workload of Directorate of Trg. & Technical Education has increased in many folds during last 4 to 5 years due to increase in number of technical institutes i.e. Engineering Colleges, Polytechnics and ITIs. Hence there is a need to strengthen the Head Quarter.

- Based on the action plan of Delhi Government some new initiatives have also been undertaken by the Department for implementation of the recommendations of National Knowledge Commission. In this process Department have set up Delhi Knowledge Development Foundation and Delhi Skills Mission.

3. Major activities proposed under this Scheme are as follows:-

### 3.1 Complete automation

Department is in the process to connect all the Polytechnics under its control through networking. For the purpose of effective monitoring of the functions of various Polytechnics and based on the recommendation of Delhi Knowledge Commission, all the libraries of Polytechnics will be digitalized and connected through DELNET. For this purpose all the Polytechnics are required requisite software/hardware for the purpose of digitalization and annual membership of DELNET is also required to be paid to DELNET. The subscription fee of membership is ₹ 7500/- at the time of registration and ₹ 4100/- per year per institute.

### 3.2 Manpower Planning for various Branches of DTTE.

As per the recommendations of AICTE and the prevailing market demand some new courses are required to be start during the next decade. For this purpose various categories of posts are required to be created during the 12<sup>th</sup> Five Year Plan (2012-17) at HQ level.

## 2. Board of Technical Education

### Plan Outlay

XII FYP	:	₹ 1500.00 Lakh
Annual Plan 2012-13	:	₹ 250.00 Lakh

### Aims and Objectives

The Board of Technical Education established in 1961. The main objective of Board is to conduct semester exam of diploma level examination in various polytechnic in Delhi and to award/diploma to student. At present, Board is having 11 Government polytechnics, 01 Govt. added institute and 09 privately managed institutes. All institutes are imparting diploma level Technical Education to more then five thousand students per year. To improve the working of Board, following schemes have been continued/included during 12<sup>th</sup> Five year Plan 2012-17 and Annual Plan 2012-13.

a) **Modernization of BTE to provide full automation:-** At present the working of BTE is fully based on manual processing FoxBASE approximately 20 year old system which is presently obsolete. The system has not any data security feature to avoid data integrity check. This system has no menu driven functionality for processing of result / queries. Obviously, Board is unable to declare results in time and provide manually prepared mark sheet on a simple computer paper which cannot be retained for a long period. Even the diploma is prepared manually by calligrapher who takes too much time

and pendency increases day by day. Secondly due to manual processing, there is always a chance of discrepancy in marks, Roll No., Name etc. Hence it is proposed to modernize the entire working of Board with fully automation with ERP solution.

**b) Strengthening of Computer Cell:-** The existing computer cell functioning with insufficient computer that too very old system, is not able to handle huge volume of data. Secondly the cell has no sufficient staff and programmer. Proper manpower planning is required for the Cell.

**c) Setting up of planning and statistical cell:-** At present, there is no system to maintain the Statistical data because in absence of the same in BTE, Under RTI act 2005, a large number of applications are received seeking information regarding number of students appeared in various institutes, semesters, streams and their pass percentage. This corrects problem for BTE to reply properly. The maintenance of statistical record will also be great help full in assessing the performance of specific branch, institute and to review the policy. The statistics can also be maintained on placement of students. Publication of annual statistical booklet of BTE is essentially required.

**d) Establishing a Library in BTE:-** The Board of Technical Education is required updating and revision of curriculum from time to time. It is very important to frame the curriculum at par with other State Board and as per market demand. It is not possible unless BTE has a full fledged library having up to date and new information on technical education.

**e) Separate Building for BTE:-** At present BTE is functioning from a small portion of a building occupied by DTTE. It is necessary to shift the office of BTE to a separate Building in order to function smoothly and in a confidential manner. Secondly present building has no sufficient space to accommodate all staff and especially faces problem during spot evaluation. Due to space problem, spot evaluation is done from Polytechnic which is neither safe nor in interest of administration.

### **3. Re-organization & Restructuring of existing facilities in Polytechnics**

#### **Plan Outlay**

XII FYP	:	₹ 6000.00 Lakh
Annual Plan 2012-13	:	₹ 1000.00 Lakh

#### **➤ Improve infrastructure of the Institutes**

For upgradation of the Polytechnics to degree college with required infrastructure like latest technology machines & tools, modernized labs are required for smooth functioning of the Institutes.

➤ **Improve the standard & quality of training in the polytechnics**

For upgradation of the polytechnics to degree colleges quality and standard of training in the institutes is required to be improved for which additional funds are required.

➤ **Manpower Planning & post creation**

Proposed activities to be under taken are :

- To revitalize and motivate the faculty system to enable them to tackle the challenges posed in the ever-growing field of technology through various training programme/HDP.
- Implementation of AICTE schemes from time to time.
- Conversion of Polytechnics into community colleges with MES kind of certification structure.
- Developing Polytechnics into centre of excellence in collaboration with industries.
- Starting Production cum training facilities to bridge the gap between theory and practice.

4. **Replacement and Modernization of Machinery and Equipments, Continuing Education and Centre of Excellence**

**Plan Outlay**

XII FYP : ₹ 1200.00 Lakh  
Annual Plan 2012-13 : ₹ 228.00 Lakh

Access to the use of sophisticated and advanced control system by students is a must for increasing the technical competence and skill enhancement. Therefore, there is a need to add new machinery and equipments and replace the obsolete ones.

- To replace the obsolete and outdated machinery and equipment which have out lived its life with the latest type?
- To provide additional modern/ sophisticated equipment due to advancement in technology/change in syllabus.
- To equip the laboratories and workshop with support facilities matching with the equipment procured.
- Setting up of Communication Skills Labs.
- Setting up of World Class test houses
- Setting up of labs enabling students to get dual certification.
- Setting up of Language Labs (English Speaking, writing Skills etc.)
- Networking of institutes through leased line connectivity, for internet access, and other common application usages.
- Development and procurement of e-learning material.

## **Continuing Education Entrepreneurship Development**

Continuing education and Entrepreneurship Development Programme has been recognized as an effective human resource development tool. This programme is primarily meant for developing the first generation entrepreneurs with the objectives:

- Continuing Education Programmes
- Starting of part time diploma courses
- Starting additional courses
- Starting of Short term Courses
- Enabling students to get additional certification.
- Training for staff from the Industry
  
- To inculcate entrepreneurship values and providing training inputs.
- To organize entrepreneurship resource camps.
- To introduce curriculum on entrepreneurship development as an elective subject.
- To organize short-term courses by inviting experts from organizations to provide necessary guidance to students.
- To set up their own industries.
- Arranging industrial visits for students.
- Industries contacting institutes for recruitment.
- Teachers deputed for QIP in industry.
- Inviting people from the field for guest lectures.
- Industrial/ in plant training of students.
- Exchange of staff
- Consultancy provided by institutions

## **Industry Institute Interaction**

In order to increase the placement avenues for the students pursuing their study in various polytechnics under DTTE, a Job fair “AWASAR” is being organized by inviting various industries. And this event is organized annually so that maximum possible students can get direct employment through job fair.

## **5. Facilities to students of SC/ST/OBC/Minorities Communities (SCP)**

### **Plan Outlay**

<b>XII FYP</b>	<b>: ₹ 60.00 Lakh</b>
<b>Annual Plan 2012-13</b>	<b>: ₹ 11.00 Lakh</b>

The scheme is an on-going scheme for the benefit of SC/ST/OBC/Minorities students. Under this scheme SC/ST/OBC/Minority students of various polytechnics who are pursuing the courses in various disciplines are provided stationery/text books/scientific calculators etc. free of cost. The quantum of assistance depends upon the strength of total students and availability of allotted budget to the institute.

Under this scheme requisite stationery material are provided on the basis of requirement received from the students of this community without considering the income of the parents.

The objective of the scheme is to motivate the students of this community so that they may not depend on their parents for extra financial burden. Under this scheme polytechnics are also conducting extra classes for the welfare of students of this community.

**6. Setting up of new polytechnics and renovation/addl. alteration in the existing Institutional building and new buildings**

**Plan Outlay**

**XII FYP** : ₹ 4500.00 Lakh

**Annual Plan 2012-13** : ₹ 1500.00 Lakh

The plan funds under this on-going scheme is provided under “Major Head 4202” included in demand no. 11 to PWD for construction of building for new polytechnics and renovation/ alteration of the various polytechnics and residential campus under the Department of Training and Technical Education for the following works:

- Maintenance of all buildings including staff quarters.
- Air-conditioning of Labs
- National / International standard conference rooms, seminar halls etc.
- Vertical Expansion of existing building
- Construction of new buildings.

A consultant has been appointed for construction of additional block at an approximately cost of ₹ 23.50 crore at Meera Bai Institute of Technology.

**7. Expansion of existing facilities in Bhai Parmanand Institutes of Business Studies**

**Plan Outlay**

**XII FYP** : ₹ 700.00 Lakh

**Annual Plan 2012-13** : ₹ 128.00 Lakh

The institute has been upgraded as a management institute and has started new UG/PG courses i.e. Master in Business Administration (MBA), Bachelor of Business Administration (BBA). The intake of students in Master of Computer Applications (MCA) has also been increased.

In the 12<sup>th</sup> Five Year Plan 2012-17 has proposed the following activities for the benefit and betterment of the students :-

1. Up-gradation/Digitization of Reading Room with facility to access E-content.
2. Setting up of requisite infrastructure for new courses as the curriculum (like tutorial room, digital class room examination cell, academic cell etc.).
3. Purchase of latest Machinery and equipment as per the curriculum of courses.
4. Setting up of new Laboratories as per the curriculum for new course and existing course respectively.
5. Digitization of Class Rooms.

6. Up-gradation of existing Computer Labs with latest Software and Peripherals to suit the need of students/courses.
7. Develop New Computer Labs with latest Software and Peripherals for MBA and BBA Programme.
8. Development of Training & Placement cell.

## **8. Staff Development**

### **Plan Outlay**

**XII FYP** : ₹ 200.00 Lakh

**Annual Plan 2012-13:** ₹ 44.00 Lakh

### **Aims and objectives**

Main objective of the staff development activities is to upgrade the expertise, qualifications and capabilities of the faculty members of various levels of technical Institutes/Polytechnics through capacity building as per the AICTE recommendations. Funds will be provided for development of capacity building of faculty at degree/diploma level institutes after due approval of Govt. of NCT of Delhi:

## **9. Indraprastha Institute of Information Technology**

### **Plan Outlay**

**XII FYP** : ₹ 25000.00 Lakh

**Annual Plan 2012-13:** ₹ 2000.00 Lakh

The Indian Institute of Information Technology (IIIT) was set up with the aim of pooling the strength and resources of the best companies with facilitation and support of the government. The institute is designed to play the role that Stanford University plays in the Silicon Valley. The main objective of the IIIT is to produce IT professionals capable of facing the complex challenges of the future. In order to achieve this, the state government initiative to set up the institute with the help of leading IT companies to promote quality IT education. The IIIT provides a four-year undergraduate program besides Masters and Doctorate in information technology. The education programs are designed by the IIIT and impart training in various modules of these programs. The prominent companies worldwide are invited to collaborate with the IIIT.

IIIT is a new generation Graduate School focusing on all aspects of Information Technology (IT). Promoted by the Government of Delhi and the IT industry, IIIT represents a model of Public-Private-Partnership that sets a new benchmark in the higher education system in India.

IIIT attracts very high quality students, and highly qualified faculty members. Together, they will pursue their research-based teaching in the unique campus in Delhi that blend together cutting-edge research and teaching.

The project cost of 1<sup>st</sup> phase is ₹ 99.99 crore. ₹ 130 crore has been released to the institute as loan upto March 2012.

During XII Five Year Plan, the 2<sup>nd</sup> phase of the campus building will be constructed.

#### **10. Takniki Shiksha Sansthan Kalyan Samiti**

##### **Plan Outlay**

<b>XII FYP</b>	:	₹ 80.00 Lakh
<b>Annual Plan 2012-13</b>	:	₹ 15.00 Lakh

The objective of the scheme is to provide representation of local area citizens, parents/Students/staff under the Bhagidari Initiatives of Govt. of Delhi. A committee in all institutes is constituted comprising of local industrialist, Principal, student, senior staff, and other personalities to look after the day to day work of the respective institutes such as:

- Minor Repair work of equipments
- Repair of Building
- Maintenance of Equipment
- Miscellaneous works related to the respective institutes.

An amount of ₹ 1.20 Lakh is provided to all institutes under this scheme, and power is delegated to the principal concerned after approval of the committee.

#### **11. Technical Education Community Outreach Scheme**

##### **Plan Outlay**

<b>XII FYP</b>	:	₹ 100.00 Lakh
<b>Annual Plan 2012-13</b>	:	₹ 15.00 Lakh

- (i) To deliver training programme and to develop a low-cost solution to the growth of high quality skills among the impoverished.
- (ii) To provide training in those areas, which have a good demand and trained persons to get employment or self-employment easily.

The scheme is intended to meet the growing demand of vocational training due to large influx of migrant population in Delhi through training programme through selected NGOs on the pattern of Modular Employable Skills (MES) scheme of DGE&T, Government of India. The MES scheme is flexible in terms of instructional hours, vertical mobility in the sector and the training programmes of short duration.

This scheme is advantageous in terms of investment in the vocational training educational system as it does not need large amount of investment for building of formal institutes. This scheme is being implemented through NGOs who arranges suitable venues and course specific infrastructure and thus, becomes cost effective.

#### **12. Introduction of New Courses in Polytechnics**

**Plan Outlay**

XII FYP	:	₹ 90.00 Lakh
Annual Plan 2012-13	:	₹ 17.00 Lakh

**Aims and objectives**

Department has approved the course of BBA, in Office Management on the recommendation of AICTE, in two different Polytechnics and it may be extended to other institutes who are affiliated through GGSIPU in the following disciplines.

- Computer Application
- MLT
- Office management etc.

Proposed expenditure under this scheme in the Plan is for :

- Additional requirement of infrastructure
- Payment to faculty engaged on contract basis, regular and guest faculty.
- Library Books
- Stationary Requirement
- Any other requirement for running of these courses.

**B. DELHI TECHNOLOGICAL UNIVERSITY**

Delhi College of Engineering was reconstituted as Delhi Technological University vide Delhi Act 6 of 2009 w.e.f. July 2009 onwards. With the up-gradation into DTU, the university has been bestowed with much greater responsibility and accountability along side with freedom to excel and serve the interest of the talented community, industry and the society. In the line of the recommendation of the National Knowledge Commission of India, DTU has planned to target its Five Year Plan to focus on:

- Introduction of new courses at UG and PG levels in new and emerging areas of engineering, technology and management
- Focus on employability- industry relevance
- Ensure synergy between education and research.
- Knowledge creation and innovations- increased IPR and new product development.
- Synergy between science and engineering for engineering tomorrow.
- Techno-Entrepreneurship and knowledge enterprise development

Total Outlay of ₹ 300 crore for 12<sup>th</sup> FYP and ₹ 60 crore for Annual Plan 2012-13 has been proposed for DTU.

**1. Capital Works (Building Construction)****Plan Outlay**

XII FYP	:	₹ 9000.00 Lakh
Annual Plan 2012-13	:	₹ 1200.00 Lakh

The Delhi College has of today 43944 sqmtrs built up space, comprising academic teaching departments, library, computer centre, students hostels, staff

residences in 165 acres well developed lush-green campus. Soon after becoming a Technological University, 04 new B.Tech & 06 new M.Tech programs in the emerging areas of science and technology were added from 2009-10 to meet the growing demand of quality manpower for industries. In addition, a school of management was established in DTU to cater for MBA program in the areas of knowledge and innovation and management. DTU is offering 15 B.Tech, 17 M.Tech, 04 B.Tech (Evening) Programs, MBA & Ph.D Programs. The overall intake of the University has gone up from 670 in 2008 to 1218 in 2011 for UG and from around 100 to 419 in PG programs.

With the continuous growth of intake capacity, various proposal regarding academic and administration expansion has been initiated for adding new academic blocks as well as hostels and other recreation facilities for the students and the faculty. In order to meet its vision and continuous academic expansion the DTU has decided to create its own Engineering cell to monitor/supervise the future construction activities as well as maintenance and repair of on-going projects.

In the XII Plan 2012-17, it is proposed to complete second phase of construction, going to cover 34454 (approx) sq.mts of areas by constructing Academic Block, Hostel Block, and Girls Hostel.

## 2. **Modernization of Machinery & Equipments and Modern Computer Centre / Networking Programme**

### **Plan Outlay**

<b>XII FYP</b>	:	₹ 4500.00 Lakh
<b>Annual Plan 2012-13</b>	:	₹ 800.00 Lakh

The existing Laboratories required to be modernized to cater to the needs of the students and setting up of new labs especially for new courses are to be initiated by the academic departments. Therefore the major thrust will be on purchase and procurement of latest equipments and tools for different labs at departmental level.

Brief summary of the expenditure:

- i. Purchase of machinery/equipments for newly created lab
- ii. Modernization of existing labs.
- iii. Supplies and materials.

The scheme of Modern Computer Centre / Networking Programme has been merged with the scheme Modernization of Machinery & Equipments. To put DTU at par with IIT's and reputed NIT's, it is necessary to use information technology as the back bone for its research, consultancy and administrative ventures. The main objectives for 12<sup>th</sup> Five Year Plan are:

- To set up LAN's in all the departments and new buildings, faculty residences at an affordable cost.
- Increasing the bandwidth of the internet speed to meet the demands of academic and research.
- Deploying IT based services for the workflow and academic activities and to ensure E-Governance

### 3. Faculty Development/ Student Welfare

#### Plan Outlay

XII FYP : ₹ 200.00 Lakh

Annual Plan 2012-13 : ₹ 25.00 Lakh

DTU by virtue of its reputation for quality education, research & innovation attracts highly skilled and experienced faculty for its academic departments. Besides teaching the faculty members have been actively involved in various research and professional activities like member of editorial boards of leading journals. Therefore, following development programs are proposed for the faculty.

- Organization of seminars.
- Membership international conferences
- Institutional membership.
- Individual membership.

For the welfare of the students, it is proposed to construct new hostel block and girls hostel and modernizing, up-gradation and digitization of library and other recreational facilities besides maintenance, replacement and repair of furniture's, Water Cooler & Aqua guard etc.

### 4. Book Bank & Library Innovations

#### Plan Outlay

XII FYP : ₹ 800.00Lakh

Annual Plan2012-13 : ₹ 100.00Lakh

Departmental libraries will be strengthened to cater instant needs of text books and necessary reference material for students, research scholars, and staff and faculty members. New departmental libraries to be established in the upcoming departments. During 12<sup>th</sup> Five Year Plan library will be strengthened by modernization, up gradation and digitization of library resources and services. New services and centers will be set up and resources will be procured including furniture, books, reference materials etc.

### 5. Scholarship & Stipends

#### Plan Outlay

XII FYP : ₹ 1800.00 Lakh

Annual Plan 2012-13 : ₹ 300.00 Lakh

The University has been making payment towards scholarship/stipend at approved rates.

## **6. Examination Cell**

### **Plan Outlay**

**XII FYP** : ₹ 200.00 Lakh  
**Annual Plan 2012-13** : ₹ 30.00Lakh

After the upgradation of DCE into DTU w.e.f. July 2009 onwards, the University has introduced series of new courses both at the UG and PG level programs resulting into increase of intake. University has started conducting its own end-semester examination along with declaration of results and issuance of mark-sheet to the newly admitted students under DTU. Thus the University is required to create additional infrastructure in terms of space and manpower to carry out the examination related activity without any hindrances.

## **7. Technical Education EDUSAT NETWORK**

### **Plan Outlay**

**XII FYP** : ₹ 150.00 Lakh  
**Annual Plan 2012-13** : ₹ 30.00Lakh

DTU has set up teaching hub(studio), which is connected with 51 institution in and around NCT of Delhi. The teaching hub has been uplinked to EDUSAT. The facilities provide connection for online transmission of expert lectures, seminar, tutorial updates and faculty orientation programmes. The hub is proposed to have facility to connect additional classroom and other similar studios within the areas of the scope of EDUSAT spot, so that four parallel sessions can be beamed simultaneously.

### **TEACHING WITH AUDIO-VIDEO AIDS**

There will be two types of teaching facilities in the network, which will include studio (with students- live class room), based teaching facility and virtual classroom based teaching facility.

At present, the following facilities are existing in EDUSAT studio:-

3 digital cameras setup, camera control unit, video switcher audio mixer, lighting controls, 3 VTRs, Non linear editing system, wave form monitors and video monitors, microphones, Systems having inbuilt video switcher, audio mixer, character generator, editing facility. Having various facility like analog and digital video and IPLOPS balanced and unbalanced input/output for audio, including virtual set creator, live streaming and live O/P for telecast.

It is proposed to procure the system for outdoor coverage's, which includes audio and video switcher, character generator and monitoring facilities with various inputs/output format including cameras capable to record in HD (High Definition), and SD (Standard Definition) formats. It is also proposed for classroom studio with complete studio facilities like camera, audio monitoring, video switching and all state of art facilities.

### **Major Component**

1. Modernization of Studio etc.
2. Purchase of equipments for effective video conferencing
3. Payment to outsource

### **8. Direction & Administration**

#### **Plan Outlay**

**XII FYP** : ₹ 13350.00 Lakh

**Annual Plan 2012-13** : ₹ 3515.00Lakh

With continuing growth of DTU and introduction of new courses, it is necessary to strengthen the various academic departments, administration, accounts, planning and hostel administration

Major components defined are as under:

- i. Salary of Teaching Staff
- ii. Salary of Non-Teaching staff etc.
- iii. Administrative Expenses

### **NETAJI SUBHAS INSTITUTE OF TECHNOLOGY**

Netaji Subhas Institute of Technology was established in July 1983. Formerly it was known as Delhi Institute of Technology (DIT). The institute was started as a government department and was later on converted into an administratively autonomous institution in 1986 under Govt. of NCT of Delhi. The institute is affiliated to the Delhi University and provides Hi-Tech courses in the emerging areas of technology at UG, PG and Ph.D levels.

During the next five years, the institute would focus on introduction of new masters programs in engineering and technology as well management, strengthening of centers of excellence already created; innovative R&D programs, sponsored research and product development, strengthening of ongoing collaborative research programs with reputed industries development of STP and entrepreneurship programs.

### **PROPOSED ACTIVITIES**

#### **New M.Tech Programmes**

- (i) M.Tech in Mechatronic Systems
- (ii) M.Tech in Industrial Electronics & Automation
- (iii) M.Tech. in Bio-Medical Engineering
- (iv) M.Tech in Bioformatics .
- (v) M.Tech in Production and Automation Engg.

Total Outlay of ₹ 140 crore for 12<sup>th</sup> FYP and ₹ 25 crore for Annual Plan 2012-13 has been proposed for NSIT.

## **1. LIBRARY, FACULTY, DEVELOPMENT & STUDENT WELFARE**

### **Plan Outlay**

**XII FYP** : ₹ 4400.00 Lakh

**Annual Plan 2012-13** : ₹ 1300.00 Lakh

### **(a) Strengthening of NSIT**

- \* Strengthening and improvement of UG, PG and Ph.D programmes, introduction of new courses at various levels and increase of intake in various programs as per the requirements and needs of NCT of Delhi
- \* To facilitate academic interaction in specialized areas by inviting faculty members drawn from industry, R & D organizations, Govt. departments and other reputed academic institutes etc
- \* Smooth functioning of the offices, departments etc in the institute

### **(b) Library & Book Bank**

#### **Proposed physical Targets for 12<sup>th</sup> Five Year Plan (2012-17):**

1. Access to on-line Books and Journals
2. Procurement of Print Books
3. Subscription of print journals
4. Procurement of equipment for "library Management system", "Library security system", "Digital Library and Multimedia Facility".

### **(c) Faculty Development & Students Welfare**

To establish linkage between the institute, industries, R&D organizations and other universities/ institutes of higher technical education for teaching and research programs in India and abroad. The faculty members and vice versa with outsiders need to attend conferences, seminars, workshops and training programs. This may go in a long way to develop, motivate and enhance knowledge.

Sponsorship to faculty members, Ph.D. research scholars, M.Tech and BE students for attending conferences as well as workshops, organizing seminars and participating in career council activities are under taken under the scheme.

The teachers and equivalent cadres of government degree level technical institutes/ government Aided Degree level technical institutes are entitled to the grant of professional development new faculty as well as existing.

## **2. PROCUREMENT OF MACHINERY & EQUIPMENTS**

### **Plan Outlay**

**XII FYP** : ₹ 4340.00 Lakh

**Annual Plan 2012-13** : ₹ 700.00 Lakh

To keep pace with the expanding academic activities, it is proposed to establish a chain of advanced laboratories in addition to modernizing the existing one. New branches of academic programs in Post Graduate streams are to be started shortly. Procurement of lab equipments/machinery and other infrastructure are required to strengthen the institute/ departments.

### **3. AWARDS / SCHOLARSHIP / RESEARCH ASSOCIATESHIPS**

#### **Plan Outlay**

XII FYP : ₹ 250.00 Lakh

Annual Plan 2012-13 : ₹ 45.00 Lakh

The merit-cum-means scholarships are being provided to the eligible students. Certain awards are also extended to deserving students. Associate-ships according to U.G.C norms are also being awarded.

### **4. CENTRE FOR ELECTRONICS DESIGN & TECHNOLOGY (CEDT)**

#### **Plan Outlay**

XII FYP : ₹ 50.00 Lakh

Annual Plan 2012-13 : ₹ 10.00Lakh

The CEDT was established in August 2003, to offer workspace to the faculty and students of the institute with facilities to implement their ideas.

CEDT has attracted the best students from the institute as well from outside to do in house projects. CEDT also successfully completed a project for Delhi Metro Rail Corporation worth ₹ 1.5 Lakh.

To continue and strengthen the creative activities of the Centre, the facilities at the CEDT need to be strengthened by acquiring the equipments and tools.

### **5. SCIENCE AND TECHNOLOGY ENTREPRENEURSHIP PARK (STEP)**

#### **Plan Outlay**

XII FYP : ₹ 20.00 Lakh

Annual Plan 2012-13 : ₹ 2.00 Lakh

#### **AIMS & OBJECTIVES**

- a. Direct interaction with the industrial enterprises through their association and encourage students to under take development wok for them. STEP will support such development work financially also.
- b. Arrange short duration training courses and week-end workshops for students on management/ technology related topics.

- c. 2-3 days meets of engineering students in which they share their experiences in industry with students from other engineering college and institutions.
- d. Identify talented students and help them develop as entrepreneur.
- e. Holding of workshops and seminars for generation of newer ideas and for increasing participation from all partners viz industries, academic/ research institutions and financial institutes.
- f. Any other activity which encourages entrepreneurship amongst students.

## **6. CONTINUING EDUCATION PROGRAMME (CEP)**

### **Plan Outlay**

XII FYP : ₹ 50.00 Lakh  
Annual Plan 2012-13 : ₹ 5.00Lakh

A continuing education program (CEP) was approved by Govt. of Delhi for the benefit of these students of weaker section of society.

The following activities are going on:

1. To provide the update knowledge of staff as well as faculty members in the field of management skills.
2. To provide personality development through entrepreneurship to the students of NSIT, outsiders staff members and as well as faculty members.
3. To make students self sufficient in generating employment in the field of multimedia and animation.

## **7. CAPITAL WORKS**

### **Plan Outlay**

XII FYP : ₹ 4000.00 Lakh  
Annual Plan 2012-13 : ₹ 272.00Lakh

### **AIMS & OBJECTIVES**

1. Providing centralized air conditioning system in library building at NSIT.
2. Renovation and maintenance of existing buildings and other infrastructures such as roads, substations, pump house, horticulture work and external service etc.

## **8. COACHING FACILITIES TO SC/ST/WEAKER STUDENTS/TRAINING PROGRAMME**

### **Plan Outlay**

XII FYP : ₹ 60.00 Lakh  
Annual Plan 2012-13 : ₹ 10.00Lakh

To help candidates of SC/ST and other backward classes in improving their theoretical and practical skills in order to improve their employability, and in some cases to inculcate the importance of entrepreneurship so that they can develop means for improving their livelihoods as well as quality of life. Special courses viz computer literacy and English speaking course are being conducted.

### **Targets for 12<sup>th</sup> Five Year Plan**

1. Computer literacy and English speaking course
2. Computer hardware
3. Personality development
4. C & C++ and other programmes
5. VB, Java, Net, Oracle
6. Multimedia and animation
7. Mobile repairing

### **9. INSTITUTE NETWORKING SCHEME (INTERNET / INTRANET)**

#### **Plan Outlay**

**XII FYP** : ₹ 800.00 Lakh

**Annual Plan 2012-13** : ₹ 150.00Lakh

Institute networking scheme requires budget to meet broadly three types of system requirements.

- i. Maintenance and expansion of existing networking Infrastructure
- ii. Internet Access Tariff
- iii. Networking Application Servers and their maintenance

### **10. SCIENCE & TECHNOLOGY PARK**

#### **Plan Outlay**

**XII FYP** : ₹ 10.00 Lakh

**Annual Plan 2012-13** : ₹ 1.00Lakh

Government of NCT of Delhi and NSIT (NSIT) proposed to set up a Science and Technology Park in Dwarka, New Delhi. This park is envisaged to house R&D units of Indian and MNC firms provide incubation facility for students / start up firms and serve as a knowledge hub in the National Capital region. This platform would further act as catalyst in the proposed mechanism for academic industry interaction. For the purpose of setting up of the park, NASSCOM has been appointed by NSIT to develop a detailed project report.

The total land areas within the NSIT campus available and earmarked for this project are approx. 30 acres on which about built up area of 2 million sq.ft. could be development. However as per the BOG in its 34<sup>th</sup> meeting the work of implementation of science and technology park at NSIT has been deferred presently for the time being till the economic recession is over. Proposal will be re-examined based on present scenario.

## **11. CENTER FOR NANO TECHNOLOGY**

### **Plan Outlay**

**XII FYP** : ₹ 20.00 Lakh  
**Annual Plan 2012-13** : ₹ 5.00Lakh

The education and training of young science and engineering graduates in the area of Nanotechnology is essential in order to ensure a flow of specialized and talented engineers into Industry. Several of the educational institutes in India and abroad have started UG and PG level programme in Nano Technology and related areas.

Proposal for Nanotechnology Laboratories (Nano-manufacturing, Nano materials and Nano-metrology Labs) was submitted by Division of Manufacturing Process and Automation Engineering (MPAE) in the 12<sup>th</sup> Five Year plan.

The proposed budget shall be utilized for conducting brainstorming sessions, meetings and faculty visits to various locations so as to plan development of this division.

## **D. COLLEGE OF ART**

College of Art, Delhi, established in 1942, is a premier art college for advanced training in Visual Art leading to the Bachelor of Fine Art(B.F.A.) and Master of Fine Art(M.F.A.) degree in the specialization of painting, sculpture, Applied Art, Print Making, Visual Communication and Art History awarded by the University of Delhi. The following Schemes are to be executed in College of Art.

### **1. Expansion of College including Construction of Additional Block**

#### **Plan Outlay**

**XII FYP** : ₹ 2200.00 Lakh  
**Annual Plan 2012-13** : ₹ 620.00Lakh

The construction of additional block in the premises has been completed. Interiors and other electrical including air conditioning, lift, civil and electrical work etc. will be completed by the end of Dec.2012. Construction of more additional block in phase II will be taken up in the 12 Five Year Plan (2012-17). Furniture and equipments are required to purchase to furnish the new studios

### **2. ACADEMIC DEVELOPMENT OF SC/ST STUDENTS**

#### **Plan Outlay**

**XII FYP** : ₹ 10.00 Lakh  
**Annual Plan 2012-13** : ₹ 2.00Lakh

Under this Scheme, eligible SC/ST students of this College are provided, study material free of cost . In addition to this, special classes are conducted for SC students. During Annual Plan 2010-11 special classes being conducted for 30 students and it is proposed to conduct special classes for 40 ST students during 2011-12.

### 3. INTRODUCTION OF NEW COURSES OF STUDY

#### Plan Outlay

XII FYP : ₹ 60.00 Lakh

Annual Plan 2012-13 : ₹ 10.00Lakh

New courses at post graduate level and under graduate level in visual communication, Print Making and History of Art has been introduced. Increase in the existing intake of students from 135 to 195 of BFA and from 21 to 30 MFA in all the six disciplines in BFA and five disciplines in MFA has been approved and implemented from academic year 2010-11.

With the increase of intake of the students and introduction of new courses at BFA & MFA level, Faculty and supporting staff position will be strengthened. .

### E. DELHI INSTITUTE OF PHARMACEUTICAL SCIENCES & RESEARCH [COLLEGE OF PHARMACY]

#### EXPANSION OF EXISTING FACILITIES

#### Plan Outlay

XII FYP : ₹ 8000.00 Lakh

Annual Plan 2012-13 : ₹ 1500.00Lakh

Delhi Institute of Pharmaceutical Science and Research (DIPSAR) a premier institute known for its high standards in teaching and research in Pharmaceutical Science. The institute offers courses in D.Pharm, B.Pharm, M. Pharm and Ph.D under University of Delhi.

DIPSAR has established Medicine and Poison Antidote Information Centre (MAPIC) in its campus and provides accurate, unbiased factual information to general public and members of the healthcare team such as Physician, Surgeons, Pharmacists, Nurses and Scientists. In addition to the laboratories meant for UG/PG routine teaching, the institute has got much state of art laboratories. The institute has hostel facility for boys and girls and guest house.

#### **PHYSICAL TARGET**

- Construction of quarters for faculty quarters
- Construction of 8+1 storey PG Block
- Introduction of M.Pharm in drug regulatory affairs and Bio- Technology

### F. GIA TO DELHI PHARMACEUTICAL SCIENCE & RESEARCH UNIVERSITY

#### Plan Outlay

XII FYP : ₹ 9000.00 Lakh

Annual Plan 2012-13 : ₹ 300.00Lakh

Delhi Pharmaceutical Sciences and Research University is established vide Delhi Act 7 of 2008. The objective to set up the university is to promote teaching, research and development in pharmaceutical studies.

**G. AMBEDKAR INSTITUTE OF ADVANCE COMMUNICATION TECHNOLOGIES & RESEARCH, GEETA COLONY**

**Plan Outlay**

**XII FYP** : ₹ 9000.00 Lakh

**Annual Plan 2012-13** : ₹ 1700.00 Lakh

AIACTR is functioning from its Campus located at Geeta Colony, East Delhi. The Institute has an area of 8.5 acres at Geeta colony in which a State-of-Art Campus with ultra-modern facilities and lush green ambiance all around is built. AIACTR was started in 2001 with 30 intakes each in ECE and CSE branch. Presently it runs two UG courses (namely B.Tech, ECE (120 intake) and B.Tech, CSE (60 intake) and four M. Tech courses namely; M.Tech (Digital Communication) and M.Tech (Information Security) M. Tech (Signal Processing) and M. Tech (RF and Microwave Engineering) with 18 intake in each.

Proposed Targets for 12<sup>th</sup> Plan and Annual Plan 2012-13

- Construction of Hostel and staff quarters
- New courses and increase in intake in various courses.
- Strengthening of AIT
- Latest equipments/instruments for various labs(existing/ new) of respective departments
- e-Governance and paperless office
- Networked digital library
- Microwave and Antenna Research Centre
- Continuing Education and Industry Institute interaction
- Faculty development
- Student welfare

**H. CHAUDHARY BRAHM PRAKASH GOVT. ENGINEERING COLLEGE, JAFARPUR**

**Plan Outlay**

**XII FYP** : ₹ 7000.00 Lakh

**Annual Plan 2012-13** : ₹ 680.00 Lakh

Choudhary Brahm Prakash Government Engineering College was established in the year 2007. The College is affiliated to GGSIPU, Delhi. It is a leading and a well known Institute for Civil Engineering in Delhi. The College provides quality education with focus on professional development of students.

The college has started functioning in the new building constructed for a new polytechnic.

Targets for 12<sup>th</sup> Five Year Plan and Annual Plan 2012-13

- Construction of Academic, Administrative, Hostel and Residential complex.

- To initiate PG courses
- Enhance of intake

**I. G.B.PANT ENGINEERING COLLEGE, OKHLA**

**Plan Outlay**

**XII FYP** : ₹ 11500.00 Lakh  
**Annual Plan 2012-13** : ₹ 600.00Lakh

G.B. Pant Engineering College was established in the year 2007 by the Govt. of Delhi and affiliated to the GGSIP University, Delhi, The institute is slated to offer superspeciality in the area of Advanced Manufacturing & Automation. Currently, offers B.Tech in Electronics & Communication Engineering (ECE) and Computer Science & Engineering (CSE), both 4 years programmes, but there are plans for future expansion to offer B.Tech, M.Tech and Ph.D. Programmes in more disciplines, once its new building is constructed.

- Construction of Academic Block, Administrative Block, Hostels Residential quarters for teachers and staff, Auditorium, Dispensary, Mini Shopping complex, Bank and Post Office.
- Creation of Labs for 5<sup>th</sup> and 6<sup>th</sup> semester for new courses of B.Tech (CSE) and augmentation/ expansion / improvement in existing labs.

**J. Indira Gandhi Technical University for Women**

**Plan Outlay**

**XII FYP** : ₹ 15000.00 Lakh  
**Annual Plan 2012-13** : ₹ 1000.00Lakh

Government has decided to upgrade and restructure Indira Gandhi Institute of Technology presently a Constituent College of Guru Gobind Singh, IP University as Indira Gandhi Technical University for Women in Delhi. The proposed University is to be set up with the objective of encouraging technical education of women and is to be fully funded by Delhi Government. The bill for setting up of the university has been passed by Delhi Legislative Assembly.