TECHNICAL EDUCATION

The Government of NCT of Delhi is committed to create quality infrastructure for Higher and Technical Education; educated and skilled youth is the backbone of a vibrant economy. Government has been making systematic planning and developing policies to improve quality of technical/vocational education. There are 03 technical universities , 08 colleges/ Institutes and 09 polytechnics functioning under administrative control of Department of Training & Technical Education. In order to promote and encourage Higher and Technical Education as also advanced research the government in 1998 set up Guru Gobind Singh Indraprastha University as affiliating university. The Government has setup three Technical Universities for imparting training in major Engineering Disciplines and Information Technology. The Indira Gandhi Delhi Technical University for Women (IGDTUW) has been set up exclusively as an University for Women for pursuing graduate and post-graduate courses in Information Technology and Robotics besides other conventional disciplines. The Indrasprastha Institute of Information Technology has been set up by the Government for promoting cutting edge research in IT besides imparting quality education in the field. The Delhi Technological University (DTU) was set up as a deemed university to provide graduate and post-graduate program in conventional engineering subjects besides facilities for research. It is proposed to take up major expansions of all the three universities to provide World Class Facilities for technical teaching and advance research in fields of electronics and information technology.

Delhi has become a knowledge city and an Educational Hub with a wide network of technical and professional institutions. It attracts students from all parts of the country as well as from abroad. Delhi has 100 Degree and PG level Professional and Technical Education Institutions affiliated to GGSIP University, Delhi University and other Universities. There are 20 Diploma Level Institutions which includes 12 Govt. /aided Polytechnics Institutions and 8 Private Sector Institutions. The number of Institutions for certificate level courses in the form of ITIs and ITCs are 77 which includes 16 Govt. I.T.Is and 61 Private Sector Industrial Training Centres.

This Sector has a total plan outlay of ₹ 309 crore in Annual Plan 2014-15. Major allocation in this year includes grant of ₹ 90 crore for Delhi Technical University, ₹ 34 crore for NSIT, ₹ 20 crore for Indira Gandhi Technical University for Women and loan of ₹ 70 crore for IIIT. All the Autonomous Institutes have been requested to become self sufficient in meeting their recurring liabilities out of internal income generation and Govt. would continue to support the capital expenditure for modernization / expansion /development of infrastructure of the Institutes. Major construction projects for building of Academic Block of DPSARU at DIPSAR has been planned with an allocation of ₹ 30 crore.

New initiatives / plan programmes taken up in 2013-14:

- Land at Narela has been purchased for setting up of permanent campus of National Institute of Technology (NIT), Delhi at a cost of ₹158.13 crore.

- Waive off tuition fee for differently abled diploma students was implemented.

- Training scheme of MHRD for promotion of livelihood skills of differently abled students was implemented.

- Online submission of applications for conduct of Common Entrance Test (CET) introduced in 2014. For the first time 50,199 students applied online. IT is proposed to introduce Common online application and counseling for admission to all the universities of Government;

- The project initiative on National Mission on Education through ICT (NMEICT) to promote IT literacy through open source software in Polytechnics / Institutions of Delhi as teaching tool taken up.

I. DIRECTION & ADMINISTRATION

1. Modernization of DTTE

Annual Plan Outlay 2014-15 : ₹ 94 Lakh

To keep pace with the increasing workload and to efficiently handle the administrative responsibility, Directorate of Training & Technical Education is required to gear up. Various administrative services are required to be delivered smoothly and efficiently through computerization / automation of service delivery mechanisms.

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 membership of DELNET will be required. The subscription fee of membership is being revised by DELNET regularly.

At present only 9 Polytechnics are under the control of DTTE. Based on the recommendation of MHRD Govt. of India, Department is in the process to open some more Polytechnics in NCT of Delhi for the benefit of the students. A proposal for providing land is under consideration of DDA for allotment of land for atleast 5 new Polytechnics.

2. Board of Technical Education

Annual Plan Outlay 2014-15 : ₹ 270 Lakh

The Board of Technical Education, established in 1961, is conducting diploma level examinations in various Engineering and Non-Engineering courses being run by the government and privately managed affiliated institutions. In addition, the Board is also entrusted with various other activities like revision of curriculums, affiliation of privately managed institutes and monitoring. Full time diploma courses in 31 disciplines and part time diploma courses in 05 disciplines are under the control of BTE. To improve the working of the Board with transparency, it is proposed to modernize the entire examination process. BTE has approached "Delhi-e-Governance Society" to develop independent dynamic website of BTE and latest software which may expedite examination and result preparation process. Revision of Curriculum as per market demand of Industries in the State is another area which needs attention. For maintenance of statistical data, Planning and Statistical Cell is proposed to be set up in BTE.

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

Annual Plan Outlay 2014-15 : ₹ **1330 Lakh**

Based on the blue print of the action plan of the Delhi Government for the implementation of the National Knowledge Commission recommendations, the department aims to strengthen its polytechnics and to develop them on the Community College model with an Modular Employable Skill (MES) kind of certification structure and by upgrading them to Degree College. The Kasturba Polytechnic for Women and the Ambedkar Polytechnic are proposed to be upgraded to Degree Colleges. Efforts are being made to revitalize polytechnics by upgrading infrastructure, improving training quality, creating posts and developing them into centre of excellence with industry partnerships. A discipline specific Polytechnic focusing on health and bio-medical sciences is being developed at Dwarka. The department also aims to provide autonomy to its Polytechnics, which witnessed 50 per cent increase in the seats by enhancing the intake capacity and by adding evening shift of classes for better utilization of the infrastructure. To revitalize and motivate the faculty, AICTE schemes are being implemented from time to time. Production cum training facilities are proposed to be started to leverage the learning of theory classes with practicals.

Merit Scholarship and Merit-cum-Means Scholarship for meritorious students and students belonging to economically weaker sections of the society studying in the Government institutions under the Department of Training & Technical Education are being implemented since 2007-08 academic session to motivate and nurture the talents.

4. **Replacement and modernization of machinery and equipments, continuing education and Centre of Excellence**

Annual Plan Outlay 2014-15 : ₹ **200 Lakh**

Access to use of sophisticated and advanced control system by students in the technical institution is a must for increasing the technical competence and skill enhancement. The activities undertaken in the scheme are as under:-

- Replacement of the obsolete and outdated machinery and equipment which have out lived its life with the latest type.
- Networking of all institutes
- Providing additional modern/ sophisticated equipment due to advancement in technology/change in syllabus.
- Equipping 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 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

Entrepreneurship Development Programme

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 objective:

- 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 of various polytechnics under DTTE, Job fair is organized where various industries are invited. 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 (SCSP)**

     Annual Plan Outlay 2014-15   :   ₹ 11 Lakh

The objective of the ongoing scheme is to give assistance to SC/ST/OBC/Minorities students. SC/ST/OBC/Minority students of various polytechnics pursuing courses in various disciplines by way of providing stationary/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 items 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 Buildings**

Annual Plan Outlay 2014-15 : ₹ 600 Lakh

The plan funds under this scheme is provided to PWD for construction of buildings for new polytechnics and renovation/alteration of the various polytechnics and residential campus under the Department of Training and Technical Education.

Some of related works are as under:

- Maintenance of all buildings including staff quarters.

- Air-conditioning of Labs

- National / International standard conference rooms, seminar halls etc.

- To carry out all building and campus related works.

- Vertical Expansion of existing building

- Construction of new buildings

Land for NIT, Delhi was purchased by the Department of Technical Education involving cost of about ₹ 159 crore at Narela during 2013-14. Ministry of HRD, Govt. of India, will construct the NIT, Delhi campus on this land.

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

Annual Plan Outlay 2014-15 : ₹ 140 Lakh

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

Institute has purchased latest machinery and equipments. Classrooms are modernized with the LCD Projectors and Visualizes as Teaching Aids. BPIBS has also purchased Interactive Boards and Interactive Panel. These electronic gadgets are meant for adopting effective pedagogical system to the day-to-day teaching-learning process for the students and all the facilities are provided in a phased manner.

BPIBS Library has procured National and International Journals like- Foreign Trade Review, Global Business Review, Harvard Business Review, Indian Journal of Marketing, Journal of Discrete Mathematical Sciences & Cryptography, computer journal and Books. Library is poising for getting a fully digitized Library equipped with E-Grantalaya Software for complete automation of Library with Bar Code Facility.

The physical target for 2014-15 are as under:

- Up-gradation/Digitization of Reading Room with facility to access E-content.

- Setting up of requisite infrastructure for new courses as the curriculum (like tutorial room, digital class room examination cell, academic cell etc.).

- Purchase of latest Machinery and equipment as per the curriculum of courses.

- Setting up of new Laboratories as per the curriculum for new course and existing course respectively.

- Digitization of Class Rooms.

- Up-gradation of existing Computer Labs with latest Software and Peripherals to suit the need of students/courses.

- Develop New Computer Labs with latest Software and Peripherals for MBA and BBA Programme.

- Development of Training & Placement cell.

8. Staff Development

Annual Plan Outlay 2014-15   :   ₹ 20 Lakh

Main objective of the staff development activities is to upgrade the expertise, qualifications and capabilities of the faculty members at various levels of technical Institutes/Polytechnics by capacity building as per the AICTE recommendations. Funds are provided for development of capacity building of the members of faculty at degree/diploma level institutes as per recommendation of AICTE.

10. Takniki Shiksha Sansthan Kalyan Samiti

Annual Plan Outlay 2014-15   :   ₹ 15 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. All polytechnics have constituted committee 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 ₹ 2 Lakh is provided to each Institute under this scheme, and power is delegated to the principal concerned after approval of the respective Committee.

11. **Technical Education Community Outreach Scheme**

Annual Plan Outlay 2014-15 : ₹ 6 Lakh

The aims of the TECOS are:

- To deliver training programme and to develop a low-cost solution to the growth of high quality skills among the impoverished.

- To provide training in those areas, which have a good demand and trained persons may be enabled to get employment or self-employment easily.

This scheme is an effort for harmonizing the livelihood needs of the impoverished and the production oriented requirements of manufacturers and service provider agencies. The main objective of this scheme is to meet the growing demand of vocational training due to large influx of migrant population in Delhi. Training under this scheme is being imparted 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.

Department of Training & Technical Education invited various NGOs for this scheme got selected through public notice. Various training programmes in trades like Tailoring, Cutting, Dress Making, Hospitality, Computer Fundamentals, Salesmanship in Retail, Mobile Repairing, Printing etc in slum/JJ clusters/rural areas of Delhi are conducted by 10 to 15 NGOs every year. At present 17 NGOs are running the courses.

12. **Introduction of New Courses**

Annual Plan Outlay 2014-15 : **₹ 10 Lakh**

Department has approved the course of BBA in office management on the recommendation of AICTE in two Polytechnics and it may be extended to other institutes who are affiliated through GGSIPU in the following disciplines, if there is demand for the course.

- Computer Application

- MLT

- Office management etc.

The expenditure on the following heads are met in this scheme:

- 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.

13. **State Project Facilitation Unit for Technical Education Quality Improvement Programme (CSS) State Share**

    Annual Plan Outlay 2014-15   :   ₹ 4 Lakh

The detailed write up of the Scheme is given in the CSS document.

B. **Delhi Technological University**

    Annual Plan Outlay 2014-15   :   ₹ 9000 Lakh

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, the university has been bestowed with much greater responsibility and accountability along with autonomy to excel and serve the interest of the talented community, industry and the society and to produce professionals in engineering and management field.

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

    Annual Plan Outlay 2014-15   :   ₹ 5000 Lakh

The erstwhile Delhi College of Engineering was shifted to its present campus at Bawana Road in 1996-97. The campus plot has a size of 163.87 acre. Only a part of it was used for the first phase to cater to initial student strength of 3000 at that time. The total built up area is 1,58,840.41 sqm comprising of academic area (69,146.03 sqm), hostel area (50,607.40 sqm) and residential area (39,086.98 sqm). The university has added 04 new B.Tech & & 06 new M.Tech programs in the emerging areas of science and technology 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. The total intake of students have increased from 3000 in 2009 to 9094 at present and likely to go up to 12220 in the next 04 years.

Thus there is a need for expansion of DTU and 2nd phase of construction covering 34454 sqm of area has been proposed to be taken up during coming years staring from 2014-15 onwards at an approximate cost of around ₹ 250 crore.

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

    Annual Plan Outlay 2014-15   :   ₹ 800 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.

Following activities/ components are being implemented under the scheme:

i.   Purchase of machinery/equipment for Labs etc.

ii.   Modernization of existing labs

iii.   Stores and purchase of raw material

iv.   **Computer Centre:** DTU has a well-equipped centralized computer centre having specialized laboratories to provide variety of platforms and computing environment for UG, PG & Research students and faculty in the university.

v.   **DTU Campus wide Network:** The centre is networked through high-end intelligent CISCO switch, and possesses round the clock two leased lines of 6 Mbps (Tata) and 8 Mbps (Airtel). The academic/library/administrative blocks and all the hostels of DTU are interconnected using Wi-Fi with limited number of access points. Recently, permission for networking the Hostels has been released and the work has started.

vi.   **DTU Web-Site:** DTU websites (www.dce.edu,) is maintained by the Design & development team comprising of students from different years under the supervision & guidance of the Head, Computer Centre. The Computer Centre shall focus on the following during plan year 2014-15.

1.   To set up local LAN in all the departments of DTU.
2.   Extending the LAN of the departments by a canopy based wireless systems to all departments
3.   To increase the bandwidth of the internet speed.
4.   To expand its functioning through WI-MAX.
5.   Deploying IT based service for the workflow and academic activities and to ensure E-Governance.

vii.   **E- Governance in DTU:** E-Governance is tool to enhance administrative efficacy and to transact the academic affairs of the university to provide necessary transparency in the discharge of various functions of the university. It is proposed to develop and install a system of e-governance at DTU.

3.   **Faculty Development/ Student Welfare**

        Annual Plan Outlay 2014-15   :   ₹ 20 Lakh

DTU has focused on quality education, research & innovation that attracts highly skilled and experienced and 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. A large chunk of faculty members have also received prestigious awards from the various reputed societies /Govt. organizations and are on the rolls of their advisory boards.

The DTU has taken various initiatives to inculcate research culture among the students & the faculty. It is providing financial support to all who are presently published research papers in National & International conferences in different R&D organization & reputed university in India & abroad.

The university is proposed to establish Centre of innovation at DTU in the year 2014-15 with the support of Delhi State Innovation Council. The university shall also endeavour to establish Industry Sponsored Chaired Professorship in areas of Energy, Software Engineering, Power Electronics, Construction Technology & Management & Design Engineering during 2014-15.

The facilities to the students have also been upgraded especially those who are residing in the various hostels. The capacity of the Hostel of all the 17 Hostels have gone up to 1710 (1310 boys+ 400 girls)., Each hostel is now well equipped with all basic facilities like Solar Water Geezers, TV with Cable Connection, Common rooms and provision for all indoor games including reading rooms etc. With a view to ever increasing demand of hostel accommodation, it is now proposed to create additional infrastructure.

DTU has also achieved excellent campus placements last academic year where several top ranking companies including Facebook, Texas Instruments, Microsoft, EPIC, Google, Oracle, RBS, Maruti, Samsung, Cisco & others have recruited students. 118 reputed companies from India and abroad have visited the DTU campus upto December 13, and 819 job offers were received.

4.   **Book Bank & Library Innovations**

Annual Plan Outlay 2014-15   :   ₹ 100 Lakh

The Central library of DTU has a very rich collection of print as well as electronic books and journals satisfying the information needs of the faculty and students. The total collection of books is approx 1,94,740 consists of 1,26,543 main collection 55,246 Book Bank, 9057 SCP Book Bank, and 3161 donated books.

Book Bank

The University runs a Book Bank having a collection of 55,246 books intended to assists students, from the economically weaker sections of society, by giving text books on loan to deserving students for the whole academic semester according to the rules framed for the purpose.

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 are to be established in the upcoming departments.

The following program has been proposed for 2014-15 to strengthen the library:

a)   Digitization of the library resources

b)   Up-gradation/Replacement of Electronic surveillance systems.

c)   Furniture for library

d)   Books & E- Journals

5.   **Scholarship & Stipends**

Annual Plan Outlay 2014-15   :   ₹ 200 Lakh

The University has been making payment towards scholarship/stipend to students pursuing M.Tech/ Ph.D Programmes at approved rates.

The university has also been granted funding by the Ministry of HRD to tune of ₹ 12.5 cr. from the World Bank under TEQIP-II programme for strengthening Post Graduation & research at DTU. It has further received funding of ₹ 6.00 cr. from AICTE towards PG scholarship to the students pursuing various PG programmes in DTU.

6.   Examination Cell

Annual Plan Outlay 2014-15   :   ₹ 70 Lakh

After the upgadation 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 from 670 in 2008 to 1622 in 2013-14 for UG & from 162 to 608 for PG courses and 50 seats are available at the Ph.D level. 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

Annual Plan Outlay 2014-15   :   ₹ 10 Lakh

Edusat studio cum class room has also been established with print support of ISRO and Govt. of Delhi, the facility is connected to 51 institutions in the NCT of Delhi. The facility is being currently utilized for transmission of on-line lecture to the connected institutions and for broadcast of recorded expert lectures, seminars and workshops.

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.

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. It is proposed to create various posts to carry out the activities.

Major Component

1.   Development of infrastructure and purchase of tools & equipments for EDUSAT & Studio and Knowledge Park.

2.   Payment to outsource staff

8.   Direction & Administration

Annual Plan Outlay 2014-15   :   ₹ 2650 Lakh

The expenditure is required to be incurred on salary of teaching and non-teaching staff, for maintaining the existing infrastructure and also to procure/ develop additional infrastructure procured additional infrastructure coupled with amenities on various administrative activities such as security, office stationery & store, office equipments and furniture including advertisement & publicity etc.

Major Component

1.   Salary of Teaching Staff

2.   Salary of Non-Teaching staff etc.

3.   Administrative Expenses

9.   Technical Education Quality Improvement Programme(TEQIP-(CSS) State Share

Annual Plan Outlay 2014-15   :   ₹ 150 Lakh

Ministry of HRD, GOI has approved the proposal of Delhi Technological University for participation under the Programme "Technical Education Quality Improvement Programme **(**TEQIP)-II". The objectives of the project are :-

- Strengthening institutions to produce high quality engineers for better employability.

- Scaling- up PG education and Demand Driven Research & Development and Innovation.

- Establishing Centers of Excellence for focused applicable research.

- Training of faculty for effective teaching.

- Enhancing institutional and System Management effectiveness.

Government of India and Govt. of NCT of Delhi will jointly share the expenditure in the ratio of 75:25 as was approved by the National Steering Committee for the project.

GNCTD will mainly be responsible for implementing and monitoring the project with the assistance of 'The State Project Facilitation Unit'.

C.   NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

Annual Plan Outlay 2013-14   :   ₹ 3400 lakh

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 college 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.

The other major objectives of institute are as follows:

- To set up Science & Technology Park.

- To undertake industrial and R&D consultancies.

- To lend support in identifying and starting small scale industry in an around the institute through entrepreneurship programmes.

- To undertake Technology Transfer Programme.

- To establish linkage between institute, industries, R&D Organizations and other Universities/ Institutes of higher technical education for teaching and research programmes in India/ Abroad.

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.

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

        Annual Plan Outlay 2014-15   :   ₹ 2500 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 2014-15

1.   On-line full text journals, print Journals
2.   Print and on line Books
3.   Bibliographic databases
4.   Printing & Binding
5.   Furniture and IT equipments
6.   up gradation of existing software, purchase of new software

(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.

**2.	PROCUREMENT OF MACHINERY & EQUIPMENTS**

Annual Plan Outlay 2014-15	:	₹ 300 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**

Annual Plan Outlay 2014-15	:	₹ 75 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)**

Annual Plan Outlay 2014-15	:	₹ 15 Lakh

The CEDT was established in August 2003, in space provided by the ECE Division. Recently, it shifted to a larger laboratory. CEDT has completed major projects viz CPLD based digital experiment board, smart conference tag, internet controlled robot, talking thermometer and clock, biometric voting machine, attendance register system, real time audio spectrum analyzer, power generator for portable applications, battery-less TV remote, Ethernet to RS-232 bridge and Rural LED lantern.

CEDT has also organized numerous workshops in Embedded Systems Design for the students of NSIT as well as for other colleges and more than 500 students trained on various aspects of embedded system.

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

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

Annual Plan Outlay 2014-15	:	₹ 3 Lakh

Science and Technology Entrepreneurship Park is envisaged to house research and development (R&D) units of Indian and Multi-National companies provide incubation facility for students/ start-up firms and serve as knowledge hub in the National Capital Region. The objective of the scheme are as follows:

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)

Annual Plan Outlay 2014-15   :   ₹ 10 Lakh

Under Continuing Education Programme (CEP), the institute has been conducting various short term courses in the area of electronics and computer primarily for the benefit of technical teachers, scientists, working engineers and weaker section of society to make them abreast of the latest developments in the field of Science & Technology.

7.   <u>CAPITAL WORKS</u>

Annual Plan Outlay 2014-15   :   ₹ 400 Lakh

AIMS & OBJECTIVES

1. Providing centralized air conditioning system in library building at NSIT. Augmentation of sub-station equipments, SITC of street lighting, solar water heating system at hostel etc.

2. Maintenance/ renovation of existing buildings and other infrastructures. Horticulture work etc.

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

Annual Plan Outlay 2014-15   :   ₹ 10 Lakh

To help candidates of SC/ST in improving their theoretical and practical skills in order to improve their employability. Special courses viz computer literacy and English speaking etc. course are being conducted.

Targets for 2014-15

1. Computer literacy and English speaking course

2. Computer hardware course

3. Personality development

4. C & C++ and other programmes

5. VB, Java, Net, Oracle

6. Foreign language course

7. Networking &Tally

9. INSTITUTE NETWORKING SCHEME (INTERNET / INTRANET)

Annual Plan Outlay 2014-15 : ₹ 84 Lakh

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

Annual Plan Outlay 2014-15 : ₹ 1 Lakh

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.

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 2million sq.ft. could be development. However as per the BOG in its 34th 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

Annual Plan Outlay 2014-15 : ₹ 2 Lakh

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.

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(both creative and applied) 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

Annual Plan Outlay 2014-15   :   ₹ 497 Lakh

Revenue   :   ₹ 147 Lakh

Capital   :   ₹ 350 Lakh

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 in the year 2014. The Library of the College is too equipped with latest publications for meeting post graduate/research requirements etc. Further the work of renovation of library to be undertaken.

2.   ACADEMIC DEVELOPMENT OF SC/ST STUDENTS

Annual Plan Outlay 2014-15   :   ₹ 2 Lakh

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 2013-14 special classes conducted for 48 students and it is proposed to conduct special classes for 103 SC students during 2014-15.

3.   INTRODUCTION OF NEW COURSES OF STUDY

Annual Plan Outlay 2014-15   :   ₹ 1 Lakh

New courses at post graduate level and under graduate level in visual communication, Print Making and History of Art has been introduced. College has students in take of 1030 in BFA and 140 in MFA in all the six disciplines in BFA and five disciplines in MFA during the academic year 2013-14.

E.   **DELHI INSTITUTE OF PHARMACEUTICAL SCIENCEs & RESEARCH [COLLEGE OF PHARMACY]**

EXPANSION OF EXISTING FACILITIES

Annual Plan Outlay 2014-15   :   ₹ 3500 Lakh

Revenue   :   ₹   500 Lakh

Capital   :   ₹ 3000 Lakh

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 (Intake-120), B.Phama(Intake-60), M.Pharma Intake-40) and Ph.D(Intake-40).

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 Academic Block of DPSARU at DIPSAR
- Providing scientific equipments etc.

F.   **GIA TO DELHI PHARMACEUTICAL SCIENCES & RESEARCH UNIVERSITY**

Annual Plan Outlay 2014-15   :   ₹ 100 Lakh

Cabinet has approved to set up Delhi Pharmaceutical Science & Research University in 2008 and the bill was passed by Delhi Legislative Assembly on 10/09/2008. The first Board of Governor of DPSRU was constituted in February 2010. 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**

Annual Plan Outlay 2014-15   :   ₹ 1450Lakh

Revenue   :   ₹ 1300 Lakh

Capital   :   ₹ 150 Lakh

AIACTR was established in 2001 and functioned with the Ambedkar Polytechnic (Shakarpur, Delhi). The college is affiliated to GGSIPU, Delhi. The institute shifted in 2008 in its new campus at Geeta Colony, having an area of 8.5 acres. AIACTR started with 30 intakes each in ECE and CSE branch of B.Tech in 2001. Presently, it runs two UG courses viz B.Tech in ECE (120 intake) & CSE (60 intake) and four M. Tech courses in Digital Communication, Information Security, Signal Processing and RF & Microwave Engineering with 18 intake in each. 67 B.Tech and 15 M.Tech students got placement in reputed companies during 2012-13.

Proposed Targets for Annual Plan 2014-15

- Construction of Hostel and staff quarters
- New courses and increase in intake in various courses.
- Strengthening of AIACTR
- Purchase of latest equipments/instruments for various labs(existing/ new) of respective departments
- Networked digital library
- Continuing Education and Industry Institute interaction
- Student welfare

H.   CHAUDHARY BRAHM PRAKASH GOVT. ENGINEERING COLLEGE, JAFARPUR

Annual Plan Outlay 2014-15   :   ₹ 700 Lakh

                Revenue   :   ₹ 550 Lakh

                Capital   :   ₹ 150 Lakh

Choudhary Brahm Prakash Government Engineering College was established in the year 2007. The College started with 60 intakes each in Civil Engg and IT branch of B.Tech in 2007 and a new programme of B.Tech (Environmental Engg) started from 2008-09 with intake capacity of 30 students. 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 started functioning in the new building constructed for a new polytechnic. It is proposed to augment all Engineering labs and strengthening of library during 2014-15.

I.   G.B.PANT ENGINEERING COLLEGE, OKHLA

Annual Plan Outlay 2014-15   :   ₹ 550Lakh

                Revenue   :   ₹ 250 Lakh

                Capital   :   ₹ 300 Lakh

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 started with an intake of 120 students 60 each in Mechanical and Automation Engineering (MAE) and B.Tech in Electronics and Communication Engineering (ECE). The institute has expanded the horizon by commencing Computer Science Engineering Branch in 2009. It has been conceived and designed to be a super- specially institute in Mechanical Engineering, with focus on Advanced/Flexible Manufacturing Systems (AMSs/FMSs), Automation & Robotics, CAM/CIM, Nano Technology, Mechatronics etc.

Proposed Targets for Annual Plan 2014-15:

* 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 5th to 8th semester for new courses of B.Tech (CSE) and augmentation/ expansion / improvement in existing labs.

J.   INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

Annual Plan Outlay 2014-15   : ₹ 2000 Lakh

The University has been established under "The Indira Delhi Gandhi Technical University for Women Act, 2012" (Delhi Act 09 of 2012) by upgrading the erstwhile Indira Gandhi Institute of Technology (IGIT), a constituent college of Guru Govind Singh Indraprastha University (GGSIPU). The University has started functioning in 2013-14 with 10 programmes including 06 programmes run by erstwhile IGIT and 04 new programmes. The University shall also start Ph.D programmes from academic session 2014-15.

K.   Indraprastha Institute of Information Technology (IIIT)

Annual Plan Outlay 2014-15   :   ₹ 7000 Lakh

The Indraprastha Institute of Information Technology, Delhi (IIIT-D) was established as a State University in 2008 by an act of Delhi Government (The IIIT Delhi Act, 2007). It started functioning in the year 2008 with an intake of just 60 students in B.Tech (CSE) from the premises of NSIT. Institute has started functioning from its own permanent campus at Okhla since August 2012. Presently Institute is running B.Tech, M.Tech and PhD in CSE and ECE and having a total student strength around 540. The aims of the Institute are:

* To carry out advanced research and development in information and software technologies, and in leveraging IT in specific domain areas.

* To train & educate at both undergraduate and post graduate levels, engineers of outstanding ability who can become innovators and new product creators.

It aims to encourage innovation and entrepreneurship in specified domain areas of IT and ITES. It is planned to be organized as conglomerate of R &D centers, some of which may be in partnership with different companies and global organizations.

The 1st phase of construction of campus completed comprising R&D Block, Lecture Hall, Library & Information Centre, hostels and faculty accommodation. The Cabinet of GNCTD has approved the proposal for construction of IIIT Campus under phase-II of the project at an estimates cost of ₹ 250 crore. IIIT is to sign MOU with Govt. for its commitment to improve its performance and to achieve academic excellence consistently on certain standards to improve quality education and to produce professionals in IT and ITES sector.