

CHAPTER-13

TECHNICAL EDUCATION

Technical Education has a crucial role to play under SDG framework 2030 vision (under SDG- 8) by becoming an agent of change for boosting employment and creating decent jobs in the country. Two major targets under SDG 8 assumes importance, that could be achieved through a quality technical education and skill upgradation programmes are: (i) to promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work and (ii) to substantially reduce the proportion of youth not in employment, education and training. Acceleration of Industrialisation and economic growth of the country are directly linked to a good technical education system and skilling programmes.

GNCTD has already started working in this direction and consistently trying to make Delhi a knowledge city and an Educational Hub with a wide network of technical and professional institutions to attract students from all parts of the country as well as from abroad. GNCTD has setup 05 Technical Universities, 05 technical colleges / Institutes and 10 Institutes of Technology (earlier called Polytechnics) functioning under administrative control of Department of Training & Technical Education for imparting technical education in major Engineering Disciplines and Information Technology. Delhi has more than 100 Degree and PG level Professional and Technical Education Institutions affiliated to GGSIP University, Delhi University and other Universities. There are 18 Diploma Level Institutions which includes 12 Govt. / aided Polytechnics Institutions and 6 Private Sector Institutions. The existing 09 Govt. Polytechnics have been upgraded to the Degree Level Institutions and B. Voc. Programmes were introduced. M.Voc. programme is being started from 2019-20 initially in three disciplines. There are 19 Industrial Training Institutes and 35 privately managed Industrial Training Centres imparting training in engineering and non-engineering trades. To promote skill education the Government has planned to open 25 World Class Centres, out of which 06 have already been started and remaining are planned to be made functional in 2019-20..

Government has been making systematic planning and developing policies to improve quality of technical/vocational education. Government of NCT of Delhi has planned to make Delhi a Start- up Hub by promoting research & development through establishment of Incubation Centres in Universities / Institutions under Govt. of NCT of Delhi from 2015-16 onwards. 11 Incubation centres have already been set up. To give a new bench mark to the applied science courses, GNCTD is to start a new University namely "University of Applied Sciences". A new initiative has been launched to inculcate enterprising attitude among students and to motivate them to become job creator rather than being job seekers, Government has started a new scheme viz "Seed money to Students for Entrepreneurship Development" for students of Polytechnics and ITIs.

New initiatives / Major projects

- Scheme viz. “Infrastructure projects of autonomous institute / university” has been started from 2018-19 to augment infrastructures in at DTU, NSUT, DPSRU and IGDTUW through PWD, so that additional capacity created from time to time are supported.
- The scheme “Setting up of 25 World Class Skill Centres” started from 2018-19 for development of new WCSCs, with allocation of ₹ 163 Crore in 2019-20.
- Phase-II construction of IIIT-D has been completed and the intake capacity is likely to be doubled from 1250 to 2500
- Various new projects like setting of new campus of DTU in East Delhi, Construction of building for CBPGEC at Jaffarpur, integrated campus of G.B. Pant Engineering College and Polytechnic, ITI Shahadra (additional building and workshop) etc. likely to be taken up in 2019-20.

Details of various Projects, Programmes and Schemes under implementation in 2019-20 are as discussed below:-

1. Replacement and Modernization Of Machinery & Equipments, Continuing Education and Centre Of Excellence

Budget Allocation 2019-20 : ₹ 1000 Lakh (Capital)

The Institute of Technology functioning under DTTE are to be modernised with sophisticated and advanced control system, modern equipments etc. for increasing the technical competence and skill enhancement of students. Various activities included in the scheme are as under:-

- Replacement of the obsolete and outdated machinery & equipment and training furniture which have out-lived its life with the latest type.
- Providing additional modern/ sophisticated equipment due to advancement in technology/ change in syllabus i.e. B.Voc. Equipping the laboratories and workshop with support facilities matching with the equipment procured.
- Modernization of labs as per change in curricula and updated technology
- Setting up of Communication Skills Labs and World Class test houses.
- Setting up of labs enabling students to get dual certification.
- 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 additional courses.
- Starting of Short term Courses
- Enabling students to get additional certification.

2. Facilities to Students of SC /ST /OBC/ Minorities Communities(SCSP)

Budget Allocation 2019-20 : ₹ 13 Lakh

The objective of the ongoing scheme is to give assistance to SC/ST/OBC/Minorities students to motivate them, so that, they may not depend on their parents for extra financial burden. SC/ST/OBC/Minorities students of various Institutes of Technology, pursuing courses in various disciplines are assisted by 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 the requirement received from the students of these communities irrespective of the income of the parents within the procedure and guidelines of the Scheme.

3. Setting Up of New Polytechnics and Renovation/ Alteration in Existing Institutional Buildings

Budget Allocation 2019-20: ₹ 9000 Lakh (Capital)

The funds under this scheme is provided to PWD for construction of buildings for new Institutions/ Institutes of Technology and renovation / alteration / maintenance of the various Institutes of Technology and residential campus under the Department of Training and Technical Education and payment against deposit works. Some of related works are as under:

- Maintenance of all buildings including staff quarters, TTE and BTE buildings.
- 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 buildings.
- Construction of new buildings / campuses including the procurement of land for new institutions.
- The construction of G..B.Pant Integrated Technical Campus.

4. Expansion of Existing Facilities in Bhai Parmanand Institutes Of Business Studies.

Budget Allocation 2019-20: ₹ 50 Lakh (Capital)

The Institute had been upgraded to a management institute that has started new UG/PG courses like 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.

The fund is proposed for the Setting up of upgraded infrastructure for the courses as per revised curriculum (Like tutorial rooms, digital class rooms, examination cell, academic cell etc.). Purchase of latest machinery and equipment as per the curriculum of courses. Up gradation of laboratories as per the curriculum for the course. Digitization of class rooms. Development of Training & Placement cell.

5. STAFF DEVELOPMENT / PROFESSIONAL DEVELOPMENT OF FACULTY

Budget Allocation 2019-20 :

₹ 100 Lakh

Main objective of the staff development activities is to upgrade the expertise, qualifications and capabilities of faculty members at various levels of the Institute of Technology 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. This scheme also includes professional development grant to be given in two ways:

- i. New faculty entrants maybe given a one - time start-up grant for purchase of computers, teaching material including books, research aids and office furnishings, etc. Existing Teachers may also be provided incentive grants for purchase of computer including grants for up-gradation of or purchase of new computer (especially for those who have availed such facilities on earlier occasions), teaching material including books and research aid.
- ii. All teachers may be given grant on reimbursement basis for a period of 3 years towards acquiring the membership of Professional Societies and for participating in national/international conferences/ workshops etc.
- iii. AICTE guidelines issued from time to time for this purpose.

6. TAKNIKI SHIKSHA SANSTHAN KALYAN SAMITI

Budget Allocation 2019-20 :

₹ 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 Institute of Technology have constituted Committee comprising of local industrialists, Principals, students, 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 upto ₹2 Lakh is provided to each Institute under this scheme and power is delegated to the principal concerned after approval of the respective committee.

7. TECHNICAL EDUCATION COMMUNITY OUTREACH SCHEME (TECOS)

Budget Allocation 2019-20 : ₹ 5 Lakh

The objectives of 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 mainly implemented in ITIs. It 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 the 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 training programmes of short duration.
- Various training programmes in trades like Tailoring, Cutting, Dress Making, Hospitality, Computer Fundamentals, Salesmanship in Retail, Mobile Repairing, Printing etc in slums/ JJ clusters/rural areas of Delhi are conducted by 10-15 NGOs every year.

8. SHARDA UKIL SCHOOL OF ARTS (SUSA)

Budget Allocation 2019-20 : ₹ 65 Lakh
Revenue : ₹ 55 Lakh
Capital : ₹ 10 Lakh

Sarada Ukil School of Arts (SUSA) is running three years Diploma course in Art for Drawing Teacher Course with intake capacity of 20 students. The Diploma is recognized & affiliated with Board of Technical Education, Delhi. The target for the year 2019-20 is to train/place/ employment of 60nos. Of students.

9. STATE PROJECT FACILITATION UNIT FOR TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) - (CSS)

Budget Allocation 2019-20 : ₹ 40 Lakh - Central Share
: ₹ 4 Lakh - State Share

The Ministry of HRD, Govt. of India had approved the proposal of Delhi Technological University (DTU) for participation under the Programme “Technical Education Quality Improvement Programme (TEQIP)-II”. A Memorandum of Understanding has been signed between Ministry of Human Resource Development (MHRD), GoI (First Party) and Training and Technical Education, Govt. of NCT of Delhi (Second Party) on 28-06-2013. As per MoU, Govt. of NCT of Delhi is to establish the State Project Facilitation Unit (SPFU) in the Department, which mainly be responsible for implementing and monitoring the project with the assistance of ‘The SPFU’. The funding pattern will be in the ratio of 75:25 between GOI and GNCTD. Now TEQUIP-III has been started and DTU has been selected under TEQUIP-III as mentor institution. 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 Centre of Excellence for focused applicable research. Training of faculty for effective teaching.
- Enhancing institutional and System Management effectiveness.
- To support the institutes like DTU selected as mentor Institute under TEQUIP-III.

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

10. COMMUNITY DEVELOPMENT THROUGH POLYTECHNICS (CDTP)

Budget Allocation 2019-20 : ₹ 85 Lakh

Community Development through Polytechnics (CDTP) scheme is a Centrally Sponsored Scheme and fully funded by MHRD, Govt. of India. The objective of the scheme is to provide non-formal training to rural youth, women, school drop-outs, SCs/STs and other weaker sections and under-privileged groups of the society, in consultation with qualified faculty/staff of the polytechnics. Training under the scheme is provided at various Training Centers of different Polytechnics known as Extension Centers and are run under the supervision of Principal of the various polytechnics. MHRD had selected 05 government polytechnics in Delhi i.e. Kasturba Institute of Technology, GND Institute of Technology, Aryabhata Institute of Technology, Meera Bai Institute of Technology and Chhotu Ram Rural Institute of Technology. The target for 2019-20 is to train about 3500 beneficiaries.

11. TRAINING OF TRAINERS

Budget Allocation 2019-20 : ₹ 50 Lakh

This Scheme has been introduced to work on thrust areas to promote skill development in Delhi state. Major area covered under this program is for imparting training under ambit of Skill Development in order to fulfil the obligation of preparing manpower with industrial skills. The Department has introduced B. Voc. Programme in various Polytechnics aligning with the requirement of National Skill Qualification Framework (NSQF).

Department of Training and Technical Education introduced activity to train the trainers involved in transfer of knowledge and skills in various institutes in association with Industries. The faculties of these Institutes are trained to teach revised industry relevance course curricula as per requirement of Institution and also to make them conversant with Ultra Modern facilities, machines & equipment as used by the industries. The faculty can be promoted for knowledge creation and capacity building under the scheme.

12.. SETTING UP OF NEW POLYTECHNICS (CSS)

Budget Allocation 2019-20 : ₹ 400 Lakh (Capital)

Five new Polytechnics in New Delhi, West, Central, North and North West District has been proposed to be set up in Rajokari, Bakkarwala, Kadipur, Jharoda Mzara (Burari) & Mandoli Village respectively. Under this scheme, Govt. of India is to provide ₹12.30 Crore per polytechnic and the remaining expenditure is to be borne by the State Government. In all the cases except Rajokari, the construction work is yet to be started. However, the possession of land for new polytechnics is at initial stage. The land cost will be borne by State Government. The new Institute of Technology at Rajokari in New Delhi District has been started from the Academic Session 2016-17.

13. RESEARCH GRANT SCHEME

Budget Allocation 2019-20 : ₹ 1000 Lakh

The objective of the scheme :

To carry out advanced research and development in engineering & technology and other areas of Pharmacy, Applied Art and Allied Sciences.

To train and educate, at both undergraduate and postgraduate levels, engineers / professionals of outstanding ability to carry out R & D works to become innovators and new product creators.

To encourage innovation and entrepreneurship in specified domain areas and plans to organize itself as a conglomerate of R&D centres, some of which would be in partnership with different companies and global organizations. All centres will also be engaged in teaching and thesis guidance. These centres, with various labs, will be the hub of activity, with active contribution from faculty and students.

To support research activities in various Institutes, Government is to provide matching yearly grant equal to the funds / grants mobilised by the Institute from external sources in that year, i.e. source other than tuition / hostel fee and grant from the Government of Delhi. The funds from external sources will include research projects, fellowships, grants to the Institute from UGC/DST etc. donations and grants from corporations, personal donations to the Institute, etc. It has been envisaged to extend maximum grant of ₹10 crore in a financial year.

14. INSTITUTE / INDUSTRIES INTERACTION

Budget Allocation 2019-20 : ₹ 50 Lakh

The standards of Training & Technical Education need to match with Industrial standards so that Industry ready skilled workforce pass through the portals of our training and technological institutions. People from Industries may be invited in the Institutions for sharing their experiences of actual work scenario. Study tours to Industries may be organised to give exposure to students as well as faculty. Industry Associations like CII, PHD Chamber of Commerce & Industry, FICCI as well as local Associations may play important role towards need assessment for the trained workforce, absorption of passed out students and sharing the best practices.

In order to increase the placement avenues for the students of various Institutes of Technology the institutes can be associated with other institutions by way of faculty exchange programme etc.

15. Infrastructure Projects of Autonomous Institutions/ Universities

Budget Allocation 2019-20: ₹ 9400 Lakhs

A scheme introduced with the objective to facilitate infrastructure projects (Building Construction) in Autonomous Institutions/ Universities (DTU, NSUT, IGDTUW and DPSRU), under Directorate of Training and Technical Education, through PWD. This scheme will cover all EOR and major projects as the minor repair works will be made by the institute at their level. A project of construction of DTU Phase-II of ₹ 291.88 crore has been approved by Cabinet in 2018-19.

16. Seed Money to Students for Entrepreneurship Development (New Scheme)

Budget Allocation 2019-20: ₹ 500 Lakh (Revenue)

To promote culture of entrepreneurship, start-ups and intellectual property creation, a guideline was issued for establishment of incubation centers in educational institutions. Initially the incubation centers are established in University/Degree level institutions under Department/Higher Technical Education. This is only helping few students having innovative ideas and after going through scrutiny, allowed as incubate to work with these incubation centers. However, these centers still not established in polytechnics (Now, Institute of Technology and ITIs) to promote culture of entrepreneurship, start ups in these institutions. Therefore, it has

been decided to involve all the students in thought process of entrepreneurship program to become a good entrepreneur.

Accordingly it has been decided in the meeting with Hon'ble Deputy Chief-Minister, while review meeting for Budget-2019-20, that ₹ 5000 to be given as seed funding to each student of Institute of Technologies and ITIs, So that the students consolidate their innovative ideas and forward to work with group of team as incubates with the incubation centers already existing or available in the market.

B. Delhi Technological University

Budget Allocation 2019-20	: ₹ 3000 Lakh
Revenue	: ₹ 2700 Lakh
Capital	: ₹ 300 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. 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. During 2018-19, 1318 students received campus placement offer.

The present campus was to cater to initial student strength of 3000 at that time. Since then the university had added many new B. Tech. & M. Tech. programs in the emerging areas of science and technology. 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 expansion of existing campus of DTU has been approved at a cost of ₹ 291.88 crore to accommodate the increased strength of students. The East Delhi campus of DTU has started functioning from the academic session 2017-18.

Proposed Targets for 2019-20

- A new course of MBA in Family Business so that children of business community will be able to learn management skills for furtherance of their respective family business.
- Purchase of machinery/equipment for Labs etc.
- Modernization of existing labs
- Stores and purchase of raw material
- To set up local LAN in all the departments of DTU.
- Extending the LAN of the departments by a canopy based wireless systems to all departments

- Deploying IT based service for the workflow and academic activities and to ensure e-Governance.
- Expansion of existing campus of DTU.

Technical Education Quality Improvement Programme (TEQIP-II) (CSS)

Budget Allocation 2019-20 : ₹ 100 Lakh - Central Share

Govt. of India had approved the proposal of Delhi Technological University (DTU) for participation under the Programme “Technical Education Quality Improvement Programme (TEQIP)-II”. Government of India and Govt. of NCT of Delhi jointly share expenditure in the ratio of 75:25. MHRD, GOI will provide all necessary support to GNCTD through National Project Implementation Unit. GNCTD will mainly be responsible for implementing and monitoring the project with the assistance of the State Project Facilitation Unit (SPFU). The objectives of the **TEQIP-II** project are:-

- Strengthening institutions to produce high quality engineers for better employability.
- Scaling-up PG education and Demand Driven Research & Development and Innovation.
- Establishing Centres of Excellence for focused applicable research.
- Training of faculty for effective teaching.
- Enhancing institutional and System Management effectiveness.

During the year 2013-14, Ministry of HRD has allocated total fund of ₹ 616.00 lakh for the Programmes.

Now TEQUIP-III has been started and DTU has been selected under TEQUIP-III as mentor institution

C NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY

Budget Allocation 2019-20	:	₹ 3000 Lakh
Revenue	:	₹ 2700 Lakh
Capital	:	₹ 300 Lakh

Netaji Subhash 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 now reconstituted and upgraded to University as “Netaji Subhash University of Technology” vide Delhi Act 06 of 2018 w.e.f. 26th September 2018, and to provide for education and research in branches of engineering, technology, sciences, humanities, social sciences and management and for advancement of learning and dissemination of knowledge in such branches and for certain other matters connected therewith or incidental thereto.

During 2018-19, 624 students received campus placement offer.

Proposed activities / target for 2019-20

- Strengthening of Library & Book Bank
- Strengthening of Centre for Electronics Design & Technology (CEDT)
- Purchase of machinery/equipment for Labs etc.
- Expansion of existing campus of NSUT

D. COLLEGE OF ART

Budget Allocation 2019-20	:	₹ 212 Lakh
Revenue	:	₹ 12 Lakh
Capital	:	₹ 200 Lakh

College of Art, Delhi, established in 1942, is a premier art college for giving 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.

1. Expansion / Strengthening of College

- Up gradation of the infrastructure of Library.
- To enhance ICT in teaching process in the College.
- Automation of Academic Branch, Admin. Branch, Store Branch and Account Branch.
- CCTV Camera and Private Security.
- Other activities relating to building infrastructure.

2. Academic Development of SC/ST Students

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.

3. Professional Development

Under the scheme grant is given to the faculty for purchase of computers, teaching materials including books, research aids and office furnishing etc

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

As per Delhi Pharmaceutical Sciences & Research University (DIPSAR) Act, Delhi Institute of Pharmaceutical Science and Research (DIPSAR) has become constituent college of the University. Therefore, the budget of DIPSAR has been merged with the GIA to Delhi Pharmaceutical Sciences & Research University (DPSRU).

**F. GIA TO DELHI PHARMACEUTICAL SCIENCES & RESEARCH
UNIVERSITY (DPSRU)**

Budget Allocation 2019-20	:	₹ 2200 Lakh
Revenue	:	₹1950 Lakh
Capital	:	₹ 250 Lakh

The University (DPSRU) has been made functional from academic session 2015-16 and running Under Graduate and Post Graduate programme in Pharmacy and UG programme in Physiotherapy. University has introduced diploma in Sports pharmacy and Bachelor in Sports Science from academic session 2017-18. During 2018-19, 70 students received campus placement offer.

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

Budget Allocation 2019-20	:	₹ 220 Lakh
Revenue	:	₹ 20 Lakh
Capital	:	₹ 200 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 runs two UG courses viz B.Tech in ECE & CSE and four M. Tech courses in Digital Communication, Information Security, Signal Processing and RF & Microwave Engineering with 18 intake in each. 105 students got placement offer during 2018-19.

Proposed Targets for 2019-20

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

H. CHAUDHARY BRAHM PRAKASH GOVT. ENGINEERING COLLEGE, JAFARPUR

Budget Allocation 2018-19	:	₹ 68 Lakh
Revenue	:	₹ 8 Lakh
Capital	:	₹ 60 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. A new programme of B.Tech (Environmental Engg) started with intake capacity of 30 students from 2008-09 has been closed due to poor response. Now College is introducing B.Tech (Mech) from 2019-20. 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 2019-20. The college has its expansion programme with construction of additional building and hostel block. 30 students received Campus Placement offer during 2018-19.

I. G.B.PANT ENGINEERING COLLEGE, OKHLA

Budget Allocation 2019-20	:	₹ 423 Lakh
Revenue	:	₹ 50 Lakh
Capital	:	₹ 373 Lakh

G.B. Pant Engineering College was established in the year 2007 by 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- speciality institute in Mechanical Engineering, with focus on Advanced / Flexible Manufacturing Systems (AMSs/FMSs), Automation & Robotics, CAM/CIM, Nano Technology, Mechatronics etc. During 2018-19, 104 students received campus placement offer.

The proposal for construction of G.B. Pant Engineering College and Polytechnic has been approved at an estimated cost of ₹ 526.66 crore .

J. INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

Budget Allocation 2019-20	:	₹ 1900 Lakh
Revenue	:	₹ 1700 Lakh
Capital	:	₹ 200 Lakh

The University has been established under “The Indira Gandhi Delhi 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 has commenced B.Arch. programme from the Academic Session 2015-16. 469 students received campus placement offer during 2018-19.

K. INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY – DELHI (IIIT-D)

Budget Allocation 2019-20 : ₹ 2500 Lakh (Loan)

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 1741 and target for 2019-20 is 2108 students. 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 centres, 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 construction of IIIT Campus under phase-II (approved at an estimates cost of ₹ 320 Crore). The work is completed. 221 students received campus placement offer during 2018-19. IIIT-D is introducing new course “Computer Science and Artificial Intelligence” from academic session 2019-20.

L. University of Applied Sciences (Earlier known as Delhi Skill / Vocational University):-

Budget Allocation 2019-20	:	₹ 1000 Lakh
Revenue	:	₹ 700 Lakh
Capital	:	₹ 300 Lakh

In order to promote the skill development in Delhi and to create jobs for the youth, the University of Applied Sciences is proposed to set up in Delhi . The University is to regulate and ensure high quality of education imparted by various skill based Institute like ITI, Polytechnic, Diploma, Degree, Post Graduate, M.Phil and Ph. D and also short term certificate courses of 3 to 12 months durations. The curriculum of various vocational and skill development courses will be improved, updated through research and future orientated approach will be taken to align with industry and market demand.

The following programmes are tentatively planned to be run in the University: of Applied Sciences-

1. Skill Development Modular Programmes, three months to twelve months depending upon the trade.
2. Certificate Programmes in Vocational Education of different Trades of one to two years.
3. Vocational Diploma Programmes in various disciplines of two to three years.
4. Bachelor Degree Programmes in Vocational Education and also vertical levels as per NSQF.
5. Post Graduate, M.Phil and Ph.D. Programmes in Vocational Education.
6. Bachelor Degree Programme and Master Degree Programmes in the area of Culture, Business, Health Care and Social Science and Technology.

The framework and action plan about the University has been suggested by the Committee constituted for the purpose and is being incorporated in the Bill accordingly.

The Expenditure will be incurred on various activities is as under:-

1. To facilitate pre-establishment activities of University and expenditure on such activity.
2. After, the establishment of the University, the expenditure to be incurred by the University.

M. Setting up of Incubation Centre:-

Budget Allocation 2019-20 : ₹ 400 Lakh

1. Promoting interactions with, and technology / expertise resourcing from, the members of academic staff and research scholars of the Departments and Centres of the Institute, and Incubating novel technology and business ideas into viable commercial products or services.
2. Provide work space for start up companies by faculty / students / alumni.
3. Develop a network of experienced entrepreneurs, technology and management experts to mentor the start-ups.

4. Facilitate start-up funding from venture capitalist, angle investors, banks and NBFCs.

11 Incubation centres has been set up in Higher & Technical Institution / Universities. 135 Start ups / Enterprises being provided work space and mentorship through these Incubation centres.

N. Delhi Institute of Tool Engineering

Budget Allocation 2019-20	:	₹ 1700 Lakh
Revenue	:	₹ 1500 Lakh
Capital	:	₹ 200 Lakh

The Societies of Tool Room & Training Centre, Wazirpur Industrial Area, Delhi and Hi-Tech Vocational Training Centre, Okhla Industrial Area, New Delhi, have been amalgamated and upgraded as “DELHI INSTITUTE OF TOOL ENGINEERING” (DITE). The Delhi Institute of Tool Engineering has come into existence with effect from 28 -11-07 and is functioning from Wazirpur and Okhla Industrial Areas. DITE has been imparting training in various regular and short term courses in special subjects of Tool making and Tool designing. Considering the demand, the intake in 4 year diploma in Tool & Die Making, one year advance technician course and one year condensed course in Tool & Die Making has been enhanced. The DITE is pioneer in starting a degree level new engineering course of B.Tech in Tool Engineering from the academic year 2008-09 under affiliation to GGSIPU.

DITE has started B.Tech course in Mechatronics from 2013-14 and M.Tech in Tool Engineering from the academic year 2014-15 under affiliation to GGSIP University. DITE has carried out fabrication of sleds for TBRL (DRDO) testing of missiles at higher speed at a cost of ₹ 1.20 crore for 12 sleds.

During 2018-19, 100 students (UG & PG) and 223 students (Diploma & Certificate Courses) received campus placement offer.

DIRECTORATE OF TRAINING & TECHNICAL EDUCATION

Budget of this section is placed under Labour & Labour Welfare (Labour Department, Employment and Craftsmen & Apprenticeship Training) but administratively, DTTE implements below mentioned schemes.

1. Modernization and Restructuring of ITI's / BTCs.

Budget Allocation 2019-20 : ₹ 1000 Lakhs (Capital)

There are lot of machinery: lathes, milling machines, shapers, slotters, electric generators, motors etc. besides light to heavy tools which have outlived their normal life and needs replacement. Consequent upon the revision of syllabus by Govt. of India from time to time, some tools and equipments needs replacement with modernised tools and machinery, old, obsolete, unserviceable and deficient in training are required to be replaced /procured as and when required.

The objectives of this scheme are:

- i) To remove the obsolescence.
- ii) To provide I.T.Is Tools, Machinery & Equipments to the existing as well as new ITIs
- iii) To replace the unserviceable Tools, Machinery & Equipment.

Besides above a large no. of machinery & equipments are lying unutilized due to lack of routine maintenance and repairs. To avoid any unnecessary breakdown/idling of machines & equipments, wherever possible each institute shall enter into Annual Maintenance Contract (AMC) preferably with the manufacturers or their authorized dealers.

To strengthen and improve the overall functioning of ITIs/ BTCs, It is proposed to provide sufficient number of CNC machines, Lathe machines, computers, printers and Internet facility in each Institute and also modernize the other labs as per latest technology and DGT norms issued from time to time.

2. Welfare Programme for SC/ST Student- SCSP

Budget Allocation 2019-20 : ₹ 50 Lakhs

Coaching-Cum-Guidance facilities are provided to SC/ST Students to increase their representation in public services and promote their employability. It was thus decided to conduct regular training in typing and stenography including General Knowledge and English for these candidates and to provide them guidance for career planning and confidence building by arranging special lectures. The training is now being imparted under SCVT for twelve months duration for full day. Two batches are running concurrently with an intake capacity of 20 students each.

Other Provisions of the Schemes: i) The Training is free of cost, ii) Stipend @ ₹ 75/- per month per trainee is paid, iii) Free stationery is provided to the trainees, iv) Vocational guidance is provided to the trainees by arranging special lectures.

3. Setting up of New ITI's and Renovation of ITI's

Budget Allocation 2019-20 : ₹ 2800 Lakhs (Capital)

The buildings of six ITI's were constructed before 30 to 45 years and need improvements, additions and alterations to cope up with the expansion and modernization programme being undertaken as a part of the Craftsman Training Scheme. Environment improvement is also required to be given attention for the campus of these old ITIs so as to provide a congenial atmosphere for training of trainees of the ITIs.

The existing workshops blocks and administrative block of ITI Shahdara are in dilapidated conditions. It is proposed to construct new building of the ITI Shahdara. The proposal for construction of new building of ITI Shahdara is under process.

The Department is also having the staff quarters. Renovation of old quarters which are 25-30 years old, is required. Besides, these residential campuses as well as ITI's buildings required continuous maintenance and renovations in the lab/workshops like providing false ceiling, sound proof partitions, providing Bus-bars, repair of electrical installations and various other civil works.

Setting up of new Industrial Training Institutes

The existing Nineteen Industrial Training Institutes & one Basic Training Centre (BTC) in Delhi, which are imparting training under the Craftsman Training Scheme of DGE&T, Govt. of India are functioning in the National Capital Territory of Delhi. To overcome the scarcity of the skilled manpower in the coming years, it is proposed to set up new I.T.I.s in the National Capital Territory of Delhi.

Keeping in view the population of NCT of Delhi, the assessed requirement of intake is of about 15000 trainees. The settings up of ITIs at Ranhola village, & Bakkarwala Village etc. are under process besides new WCSC at this site.

4. World Class Skill Development Centre

Budget Allocation 2019-20 : ₹ 10250 Lakh
 ₹ 250 lakh (Revenue)
 ₹10000 lakh (Capital)

The Government of NCT of Delhi is setting up a **World Class Skill Development Centre** at Jonapur, Delhi in collaboration with Institute of Technical Education, Singapore. The project was approved by Delhi Cabinet and MoU has already been signed with ITE, Singapore on 11th July 2012. The project, on completion will train around 5,000 trainees per annum. The construction of World Class Skills Centre at Jonapur will be executed by PWD.

The objectives of World Class Skill Centre are :

- To enhance the training skills of aspirants in Delhi and create skilled manpower as per the requirement of Indian and global industries.
- To enhance the training standards and upgrade the skill of the trainees.
- To cater the need of the population of Delhi as well as rest of the country.

- To change the mindset among the aspirants and to provide a methodological approach towards vocational training in Delhi.

The Center started functioning from 2013-14 from its temporary campus at ITI Vivek Vihar in two sectors i.e. Hospitality operations and Retail Services with intake of 160 students in each trade. Two more courses i.e. Information Technology & Account Banking Finance Sector have been added with 40 intake in each trade from Academic Session 2015-16.

5. Takniki Shiksha Sansthan Kalyan Samiti (TASSKS).

Budget Allocation 2019-20 : ₹ 10Lakhs

A committee in all Institutes has been constituted through participation from 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 of Building and electrical work of the institutes, Maintenance of Equipment, tools, machineries, Purchase of raw material required urgently, Repair of signage boards, replacement of window panes, repair of furniture viz. dual desks, chairs, tables etc. An amount of ₹ 2 Lakhs (ceiling) is provided per institute / ITI under this scheme.

6. Technical Education Community Outreach Scheme (TECOS)

Budget Allocation 2019-20 : ₹ 70 Lakhs

Approximately 200 short term courses are taught to private students under the scheme by NGOs to enable the students to earn their livelihood, which are basic and community based. Funds are given to NGOs for running each course for 50 students (2 batches of 25 students per batch) and each course is of 3 months duration.

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 NGOs. At present 15 NGOs are running the courses. The number of beneficiary in 2018-19 were 2456 and target for 2019-20 is 2500 students.

7. World Bank Assisted Vocational Training Improvement Project (VTIP)

Budget Allocation 2019-20 : ₹ 25 Lakhs – State Share
 ₹ 3 Lakhs – State Share (SCSP)
 ₹ 90 Lakhs – Centre Share (CSS)
 ₹ 10 Lakhs – CSS (SCSP)

The objective of the scheme is to upgrade selected ITIs under the Centrally Sponsored project, entitled Vocational Training Improvement Project with financial assistance from the International Development Association within the World Bank through DGE&T, Ministry of Labour, by introducing new multi-skilling modular

courses, improving physical infrastructure facilities, adopting new training methodology with close involvement of industry and other stakeholders; and, empowering ITIs by providing adequate managerial, administrative and financial autonomy, building up partnership with the nearby industries and setting up of Institute Management Committees.

Four ITIs had been upgraded into Centre of Excellence in different Sectors. These are ITI Pusa (Automobile Sector), ITI Arab-Ki-Sarai (Production and manufacturing Sector), Sir CV Raman ITI (Electrical Sector) and ITI Jail Road (Information Technology Sector).

ITI Pusa was upgraded with funding by DGE&T, Ministry of Labour and other three ITIs have been upgraded with World Bank Assistance released through Ministry of Labour. The funding pattern as per the existing scheme is 75% of the total expenditure would be reimbursed by DGE&T, under World Bank Project. DGE&T so far has released Central assistance to tune of ₹ 579.40 Lakhs for three ITIs & SPIU. The scheme was formulated by Govt. of India for 5 years, so only matching share of unspent balance will be required.

8. GIA to Delhi Skills Mission Society (DSMS)

Budget Allocation 2019-20 : ₹ 10 Lakhs

"Delhi Skills Mission Society" (DSMS) under the Chairpersonship of Hon'ble Chief Minister has been set up as a part of National Skill Development Programme. The aim of the "Delhi Skills Mission Society" is to contribute to Delhi's development and to seek economic growth through skill upgradation in the areas having high market demand and to help to youth for getting gainful employment.

In order to achieve the vision envisaged in the preamble the Delhi Skills Mission will have the following objectives:

- To generate marketable skills and to enable 25% of the needy population to become skilled in three years and to have 50 % of the needy population skill empowered in five years.
- To upgrade the existing Industrial Training Institutes into Centers of Excellence by suitably upgrading the infrastructure facilities, revamping obsolete programmes and introducing new programmes of relevance and demand.
- To encourage establishment of new Industrial Training Institutes as fully autonomous entities - having administrative, financial and academic autonomy.
- To encourage private participants to establish skill and vocational training centers, so as to train larger numbers of needy youth.
- To develop skills training providers to conduct programmes under multiple modes like, modular employable Skills programme, entrepreneurial skill programmes, etc.

- To support institutions and organizations both in the Government and Private sectors, to conduct Modular Employable Skills training programmes. To encourage all concerned entities to train the youth towards Self Employment and Entrepreneurship skills, with emphasis on bankable skills and to encourage formation of Self help Groups/Multipurpose Job Clubs; to provide necessary subsidies to the trainees, where there is a viability gap in the funding available to self-help groups of trainees.
- To bring all the Government initiatives related to vocational/skill development training programmes and related activities under the common umbrella of the Skills Mission, like the initiatives of the Departments of Training and Technical Education, Social welfare, Industries, Labour, SC/ST/OBC/Minority Welfare and other vocational training providers (Private Initiatives), so as to achieve a coordinated target within a specified timeframe and to support /supplement / subsidize such initiatives.

9. Delhi Smart Career Scheme (Earlier known as Delhi Skill Development Initiative Scheme)

Budget Allocation 2019-20 : ₹ 50 Lakhs

The Delhi Smart Career Scheme launched under Society for Skills Promotion in Delhi, a registered society functioning under Department of Training & Technical Education, Govt. of NCT of Delhi. It may help youth of Delhi to choose various career options through appropriate level of training. The scheme was launched to impart “Modular Employable Courses” to the youth of Delhi in close consultation with Industry, Business, Government Department, PSUs, Autonomous Bodies and Sector Skill Councils.

10. Society for Self Employment

Budget Allocation 2019-20	:	₹ 200 lakh
Revenue	:	₹ 170 Lakhs
Capital	:	₹ 30 Lakhs

The Society for Self-Employment, a registered Society was established in the year 1986. The Society became functional on 1st April 1987. The aims and objectives of the society are:-

- To impart training in different technical course to the young generation of weaker section of the Society so that they may earn their livelihood by getting themselves Self Employed or get gainful employment.
- To identify skills and manpower requirement of the industry and accordingly develop skilled manpower to cater the need of Industry.
- To identify opportunity in the sector of self employment, micro small and medium scale enterprises.

- To develop various training modules based on upcoming opportunities and implement training programmes for the employment youth.

The Society conducts skill development programmes in Fashion Designing, repair and maintenance of household electrical appliances, electrical gadget, Refrigeration and Air-condition and Plumbing. The society is imparting training through four centers viz. Jhandewalan, Okhla, Nandnagri & Wazirpur. During 2018-19, a total of 522 candidates have been trained by SSE in various Vocational Training Programme. Target is to train about 500 trainees during 2019-20. These Centers are to be converted into WCSCs in phased manner.

11. Training of Trainers

Budget Allocation 2019-20 : ₹ 50 Lakhs

The Scheme has been introduced to work on thrust areas to promote skill development in Delhi State. Major area covered under this program is for imparting training under ambit of Skill Development in order to fulfill the obligation of preparing manpower with industrial skills.

With this background, Department of Training and Technical Education formulated a scheme to train the trainers involved in transference of teacher / knowledge and skills in various Institutes with association of Industries. The faculties of these Institutes will be trained to teach revised industry relevant course curricula as per requirement of Institution and also to make them conversant with ultra modern facilities with machines & equipment being used by the industries. The Association of Industries may also be partnered for efficient implementation of the scheme.

12. Setting up of 25 world Class Skill Centers

Budget Allocation 2019-20 : ₹ 16300 Lakh
 ₹ 2300 Lakh - Revenue
 ₹ 10000 Lakh - Capital
 ₹ 4000 Lakh - M & E

The World Class Skill Centre at Vivek Vihar has emerged as a bench mark institute not only in Delhi but in India. To provide opportunities in the field of Skill Development & Vocational Education for the youth covering all regions of Delhi and to cater the demand of skilled manpower in Delhi and NCR, Government has decided to replicate the skill model by setting up 25 new World Class Skill Development Centres in Delhi. Existing institutes have been identified where 25 World Class Skill Centres are to be started. Initially 6 WCSC Institutes have been started in March 2019. The remaining Institutes will be opened thereafter at different locations /Institutions from August 2019. 1440 trainees are planned to be trained in 2019-20.

Following sectors have been identified tentatively in which the training are proposed to imparted:

1. Health & Wellness, 2. IT & IT enable Services, 3. Retail Management, 4. Hospitality & Tourism 5. Accounts, Banking & Finance, 6. Logistics, 7. Automobiles, 8.

Electronics, 9. Media & Event Management, 10. Apparel, 11. Production & Manufacturing.

Mostly of sectors selected are service sectors and the placement is expected to be high.

The funds under capital is earmarked for renovation of existing buildings and construction of new buildings and procurement of Machineries & equipments of the 25 WCSCs. DTTDC has been engaged for renovation/ construction work. The budget provision under revenue is allocated for making payment of salaries/wages for the staff, Office Expenses, raw materials, consumables for training purpose, machineries, tools & equipments, furniture etc,

13. Upgradation of Govt ITIs into Model ITIs

Budget Allocation 2019-20 : ₹ 295 Lakh - CSS (Capital)
₹ 127 Lakh- State Share(Capital)

Under the Scheme “Upgradation of Govt. ITIs into Model ITIs”, 29 ITIs one from each state are assisted under the scheme. ITI Pusa has been selected on the merit in the Delhi State. The cost sharing between Centre and State is in the ratio of 70:30. The key objective is to develop a benchmark for industry oriented ITI which would serve as a model for other ITIs and would also raise dignity of ITI education. The ITI Pusa has a functioning Institute Management Committee registered as a Society. Other members in Institute Management Committee from industry also represent various trades in ITI Pusa. The Society is required to take up reassessment of all existing trades and new requirement for their relevance with local market demand for preparation of implementation plan.

Keeping the above development scenario in view, a tripartite Memorandum of Agreement has been signed between Government of India, Govt. of Delhi and M/s. Maruti Suzuki India Limited on 05.09.2016. The Ministry of Skill Development & Entrepreneurship, National Implementation Unit, Govt. of India has approved an outlay of 843.00 Lakh. 70% of total outlay of ₹ 590.00 Lakh has been sanctioned as Central Share and 30% of total outlay i.e. ₹ 253 Lakh shall be State Share to be borne by State Government.

The first instalment of Central Share i.e. ₹ 295 Lakh has been released by the Govt. of India in the year July 2016. The corresponding state share of ₹ 127 lakh has been provisioned in the Budget Estimate 2019-20.

14. Entrepreneurship Development Programme for Student (New Scheme)

Budget Allocation 2019-20 : ₹ 500 Lakh (Revenue)

To promote culture of entrepreneurship, start-ups and intellectual property creation, a guideline was issued for establishment of incubation centers in educational institutions. Initially the incubation centers are established in

University/Degree level institutions under Department/Higher Technical Education. This is only helping few students having innovative ideas and after going through scrutiny, allowed as incubate to work with these incubation centers. However, these centers still not established in polytechnics (Now, Institute of Technology and ITIs) to promote culture of entrepreneurship, start ups in these institutions. Therefore, it has been decided to involve all the students in thought process of entrepreneurship program to become a good entrepreneur.

Accordingly. ₹ 5000 to be given as seed funding to each student of Institute of Technologies and ITIs, So that the students consolidate their innovative ideas and forward to work with group of team as incubates with the incubation centers already existing or available in the market.