



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. Manoj Kumar
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	01812207650
Mobile no.	9478101102
Registered Email	deansa@davietjal.org
Alternate Email	principal@davietjal.org
Address	Kabir Nagar
City/Town	Jalandhar
State/UT	Punjab
Pincode	144008

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Dr. Anil Soni</b>
Phone no/Alternate Phone no.	<b>01812207650</b>
Mobile no.	<b>8146100679</b>
Registered Email	<b>iqac@davietjal.org</b>
Alternate Email	<b>deansa@davietjal.org</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.davietjal.org/wp-content/uploads/2019/12/1AQAR-2017-18.pdf">https://www.davietjal.org/wp-content/uploads/2019/12/1AQAR-2017-18.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.davietjal.org/wp-content/uploads/2019/08/DAVIET-Academic-Calendar-2019F.pdf">https://www.davietjal.org/wp-content/uploads/2019/08/DAVIET-Academic-Calendar-2019F.pdf</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>A</b>	<b>3.07</b>	<b>2017</b>	<b>30-Oct-2017</b>	<b>29-Oct-2022</b>

<b>6. Date of Establishment of IQAC</b>	<b>18-Sep-2015</b>
---	--------------------

<b>7. Internal Quality Assurance System</b>
---

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>Meeting of IQAC</b>	<b>05-Jun-2019</b>	<b>13</b>

	1	
Submission of AQAR to NAAC	26-Dec-2018 1	0
Participation in AISHE	13-Feb-2019 1	10
Feedback from students	18-Mar-2019 3	1200
Academic Audit	12-Mar-2019 2	111
Feedback from students	14-Oct-2019 3	820
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
DAVIET	PMKVY	AICTE	2019 90	127500
DAVIET	NIMAT	DST	2018 1	16000
DAVIET	IRD	IIT DELHI	2019 1	50000
No Files Uploaded !!!				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

No

Upload the minutes of meeting and action taken report

No Files Uploaded !!!

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Making the teachers acquainted with the values of institutional accreditation and the new method of NAAC accreditation. New courses introduced during the current

academic session. Participation in All India Survey of Higher Education (AISHE). Preparation of NBA Accreditation. Introduction of MOOC for students and faculty.

No Files Uploaded !!!

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To improve admissions, placements and results quantitatively and qualitatively.	There has been significant improvement in the number of admissions. Three new courses have have been introduced from the new session.
To inculcate the culture of entrepreneurship amongst the students.	The Institute has its on Startup Policy The Centre for Incubation and Entrepreneurship of the Institute has been helping the students to start their ventures. Three new startup have taken place during the last year.
No Files Uploaded !!!	

**14. Whether AQAR was placed before statutory body ?**

No

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2019

Date of Submission

13-Feb-2019

**17. Does the Institution have Management Information System ?**

No

**Part B**

**CRITERION I – CURRICULAR ASPECTS**

**1.1 – Curriculum Planning and Implementation**

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

1. Academic calendar showing the schedule of academic support activities of the semester. Department-wise timetable is prepared well before the start of the classes and is followed throughout the semester. The Institute academic calendar is prepared on the basis of the departmental activities. 2. Course File for each subject is prepared before the start of the session which

includes daily lecture plan. 3. Day-wise Teaching Plan for the whole course curriculum to be covered in the semester. 4. Planning of monthly assignments and weekly tutorial sheets to be given to the students. Study Material. 5. Curriculum is divided into two parts. After completion of each part, Mid Semester Tests are conducted. 6. Students are given assignments and tutorials as per the plan contained in the course file(s). 7. Regular Departmental Meetings to discuss teaching strategy, coverage of syllabus and performance of the students, important reference books and journals etc. 8. Programme Chart of departmental activities framed by every department at the session start. 9. The institute has a well stocked library with open excess system for the benefits of the students and faculty. 10. The institute subscribes to a large number of National and International print and e-journals. 11. A list of recommended books handed over to the HOD for library purchase by department faculty. 12. A list of recommended Books is given to the students at the beginning of every session. 13. Two Mid semester tests along with quizzes are conducted to prepare the students for the forthcoming final university examination. 14. The Institute provides free-ships to the poor, needy and meritorious students. 15. The Experts from industry are invited to deliver lecture to the students to acquaint them with the latest technologies being used by the industry. 16. The Institute organizes various seminars, conferences and faculty development programmes from time to time. 17. Most of the classrooms are ICT enabled and faculty is encouraged to use multi media projectors to delivered the lectures. 18. The minor and major projects, assignments, tutorial sheets are given to the students as per Bloom's Taxonomy. 19. The contents beyond syllabus are identified as gap areas in the curriculum and Contemporary issues relevant to the domain are taught in the classroom. 20. The training workshops are arranged for the students from time to time. 21. The students undergo six months industrial training in pre-final/ final semester. 22. Peer-to-peer learning and project based learning are encouraged. 23. Collaborations at National and International level with Institutes and industries of repute. 24. The various technical event(s)/competition(s) are organized by all the departments. 25. The Institute organizes an annual Tech-fest 'aDavitya' in which students get an opportunity to showcase their talent. The students from other Institutes also participate in this fest. 26. The students are encouraged and helped for preparing various competitive exams. 27. Based on the performance of the students in the MST(s), the first and second ranking students of all the classes are offered the choice of purchasing books suiting to their requirement(s) for price.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
0	0	02/12/2019	0	0	0

**1.2 – Academic Flexibility**

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System

No Data Entered/Not Applicable !!!

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
0	02/12/2019	0
<a href="#">View File</a>		

#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
<a href="#">View File</a>		

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>1. The feedback from the students is obtained after the Mid Semester Tests twice in a semester. 2. The Identity of the student is not disclosed while filling the online feedback. 3. Feedback on overall functioning of the college: it is based on the learning environment of the college, hostel facility, training and placement facility, canteen facility, medical facility, counselling center, sports facility, infrastructural facilities etc. 4. The feedback received from the students on academic issues is conveyed to the concerned faculty member through respective Head of the Department. 5. The complaint / suggestion boxes are installed at prominent locations in the institute. 6. The complaint / suggestion boxes are opened from time to time and feasible suggestions are implemented. 7. There is the complaint registrar in the library where students can register their complaints regarding library. 8. Feedback from the Parents' is obtained on overall development of their ward and about learning environment in the college as well as imparting value based education in their wards. 9. The institute has registered alumni association whose feedback is based on role of the college in the development of student personality and employability, academic excellence. 10. The institute obtains Feedback from the employers and experts from industry on the current curriculum and their views as per the current scenario. Addon and Value added courses are designed based on this feedback. Placement cell also takes cognizance of this feedback while organizing training sessions.</p>

### CRITERION II – TEACHING- LEARNING AND EVALUATION

## 2.1 – Student Enrolment and Profile

### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1554	187	90	10	11

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
111	80	28	30	8	600
No file uploaded.					
No file uploaded.					

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

1. Each class has a class teacher. The students can discuss their problems with concerned class incharge. 2. The students are free to approach Head of the Department / Dean and Principal regarding their any problem. 3. Faculty mentors are appointed for major projects of the students. 4. The Institute has appointed a parttime Counseling Psychologist. Students are counseled for various psychological and emotional stressors and taught coping skills. Students are counseled individually as well as in groups, where discussions and presentations by the students on the topics, which affect them, are encouraged. 5. There is a provision in the curriculum about the appointment of Group Advisors. 6. Department of Training and Placement counsels the students about career opportunities and higher education. 7. Students are informed from time to time about career options in diverse fields such as defence services, public sector undertaking job options, corporate openings etc. 8. The faculty members have being appointed for all the first year students and they act as guardians of the students allocated to them through out their course of study.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1741	111	15.68

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
168	111	57	17	36

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National,

International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• The Institute has a transparent and continuous evaluation system. • Internal evaluation of the students is a continuous process. The performance of the students is judged continuously in classrooms through participation, quizzes, mid semester tests, practical, assignments, tutorial sheets, group discussions, paper presentations etc. • The mid semester tests are conducted by the office of the control of examination. • Question papers of the mid semester tests are in line with the pattern of the university exams. • Answer sheets are made available to the students and discussed with them. • Parents are informed about the performance of the students and their feedback is obtained about the same. • Record of the student performance in the mid semester test is duly maintained for monitoring the growth of the student in classes and midterm exams. • The final internal assessment is displayed on the notice board of the department. • The students who do not meet the necessary condition are detained from appearing in the University exam. • The students excelling in the University exams are awarded in the annual function. • The course outcomes are mentioned in the question papers and their mapping is done.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• The Institute adheres to a systematic strategy for completing the curriculum within the planned time frame and calendar which is in line with calendar of the university. • The departments prepare the calendar for extracurricular and cocurricular activities. • On the basis of the university calendar and calendar received from the department the Institute academic calendar prepared for the semester. • The Institute academic calendar is displayed on the website of the Institute. • For the students who do not perform well in mid semester test or are slow learners, remedial classes are planned and they are helped to get their syllabus completed. • The Institute tries to adhere to the academic calendar.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.davietjal.org/departments/ug/computer-science-engineering/vision-mission-peos-psos-pos-cse/>



## 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<u>No</u>
-----------

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
IoT Challenge 2019 (Coordinated)	Electronics Communication Engg.	06/03/2019
Workshop on PICMicrocontroller	Electronics Communication Engg.	19/03/2019
Workshop on Cyber Security	Computer Science Engg.	06/03/2019
Workshop on Cloud Computing	Computer Science Engg.	19/02/2019
Workshop on Big Data	Computer Science Engg.	01/02/2019
Workshop on Machine Learning	Computer Science Engg.	15/10/2018
Workshop on Internet Of Things	Computer Science Engg.	14/09/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
-------------------	------	--------------	----------------------	--------------------	----------------------

DAVIET Jalandhar	Centre Of Incubation E ntrepreneurs hip	Micro ,Small Medium Entre prise(MSME) and Entrepre neurship Development Institute of India(EDI)	MechGo	Core	10/07/2019
DAVIET Jalandhar	Centre Of Incubation E ntrepreneurs hip	Micro ,Small Medium Entre prise(MSME) and Entrepre neurship Development Institute of India(EDI)	DAV Ira	Core	15/01/2019
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Civil Engg.	1
Electronics Communication Engg.	2

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engg.	7	1
International	Applied Sciences	16	4
International	Information Technology	2	0
International	Mechanical Engg.	5	0
International	Electronics Communication Engg.	12	2
International	Computer Science Engg.	3	0
International	MBA	6	0
No file uploaded.			

#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engg.	10
Information Technology	1
Electronics Communication Engg.	5

Computer Science Engg.	1
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
<a href="#">View File</a>						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
<a href="#">View File</a>						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	15	6	20	5
No file uploaded.				

### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Seminar on "Drug Deaddiction"	NSS wing of the institute in association with NGO "Dishadeep"	5	250
Tree Plantation Drive	NSS wing of the institute in association with NGO "Dishadeep"	10	400
World Mental Health Day	NSS wing of the institute	7	250
No file uploaded.			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NA	0
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Survekshan	NSS wing of the institute in association with Municipal Corporation, Jalandhar	Cleanliness Drive in Burton Park	9	150
Unnat Bharat Abhiyan	NSS wing of the institute	Household and Village Level Survey	9	450

No file uploaded.

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Faculty Exchange	1	Self	1

No file uploaded.

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					

[View File](#)

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			

[View File](#)

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
43	23.96

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Campus Area	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
No file uploaded.	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
EGranthalaya	Fully	EG3	2006

##### 4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NA	NA	NA	02/12/2019
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	626	22	300	0	22	4	9	300	3
Added	40	1	212	0	1	0	1	212	0
Total	666	23	512	0	23	4	10	512	3

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

512 MBPS/ GBPS
----------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NA	<a href="#">NA</a>

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
6	2.8	13	7.09

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

• The institution obtains the necessary requirements of class rooms, laboratories and other infrastructural resources from each HOD/Section Incharge well before the beginning of the academic year. • After validation of the requirements the available resources are allocated to each department. • Submission of requirement in the form of a proposal • Evaluation by Purchase Committee and Maintenance Committee • Approval by the Principal. • The different purchase committees are formed for purchase of various items. • Call for quotations and verification of prices and availability of the items. • Purchase order is placed and material received. • Any new facility to be constructed / acquired is provided by the management before the semester begins. • Wherever there exists a situation that a facility (a laboratory) is required by more than one department suitable adjustments in the time table would make the optimal use of the laboratory a possibility. • Right from its inception in the year 2000 the college has been improving its infrastructure to meet its ever increasing growth. • Additional blocks for academic and administrative purposes have been constructed. • Floors have been added to the existing blocks to enhance the facilities. • Renovation of older blocks and modernization of laboratories have been done to meet the ever changing academic requirements. • The institution has a permanent Estate Officer who is assisted by a fully time plumber, electricians, and carpenter etc. to take care of all the construction and maintenance activities of the institute. • The buildings are maintained for their upkeep and repairs on a regular basis. The house keeping team regularly maintains the buildings, corridors and other places clean and tidy. The wash rooms are maintained by a team on a regular basis to maintain their usability.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institutional Fee Waiver	118	2389000
Financial Support from Other Sources			
a) National	Post Matric Scholarship	158	13107300
b) International	Nil	0	0
No file uploaded.			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			

[View File](#)

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Classes for GATE Examination	200	510	8	286
No file uploaded.					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	3

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	2	B.Tech.	ECE	NITJ	M.Tech
2019	7	B.Tech.	ECE	University of Concordia, University of Ottawa, Sheridan College Davis	MS
2019	1	B.Tech.	CSE	University of Windsor	MS
2019	2	B.Tech.	CSE	University of Concordia	MS
2019	5	B.Tech.	CSE	University of Ottawa	MS
No file uploaded.					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	4
NET	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
IKG PTU Inter College Basketball Tournament (Men Women)	State	360
IKG PTU Inter College Cricket Tournament	State	352
Talent Hunt	College	450
Inter Zonal Youth Festival	State	600
4th MUN	College	150
No file uploaded.		

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Bronze	National	0	1	1604544	Neha
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

- The institution has a practice of identifying class representatives for each class. There are various clubs/societies of the students in the Institute. These societies/clubs undertake various activities. The details of the clubs are TechLit Club, Robotics Club, Consortium of Civil Mechanical Engineers, Society of Innovative Electro crackers, Hubby Expo Club, Club of Integrated Boards, S3A, Manageates, Arteso Fine arts, Alfaaz - Literature, cLicker - Photography, Pragyan, Ashwa (The Western Dance Group).
- The students' chapter of the various societies viz. ISTE, IEI, IETE and CSI are functional in the Institute and various activities are performed by these chapters.
- The AntiRagging Committee and AntiRagging Squad of the Institute have student members. There are mess committees for all the hostels having student representatives. The students' chapters of clubs and societies ISTE, IEI, IETE and CSI have student representatives.
- The Institute organizes an annual Techfest 'aDavitya' in which students get an opportunity to showcase their talent. The students from other Institutes also participate in this fest. The total fest is managed by the students only.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes



An organization's alumni are the reflection of its past, representation of its present and a link to its future. Educational institutions are changing the way they see and interact with their alumni community. Earlier, alumni and their alma mater were treated as separate entities wherein one's existence was independent of the other. Local alumni chapters were formed as a means to interact with other fellow alumni. However, the alumni associations seldom had any interaction with the institution they graduated from. Creating an engaged, supportive alumni network is crucial to an institution's success. If communication stops once graduates leave an institution, their understanding of the university will become stale. Instead, they should be kept informed so they can remain engaged and keep abreast on the progress of the university. Good alumni relationships bring many benefits to both the institution and the alumni. One of the strongest bonds that have survived over the years is the bond of friendship which develops during our college life. Over the years DAVIET has established a strong Alumni network. Our Alumna and Alumnus dream big and gave their heart and soul to the cause of converting those dreams into reality. Alumni association acts as a binding force to further strengthen the visualization as well as the realization of the vision and mission of the institute by playing effective roles as the part of DAVIET family. When it comes to sharing ,we love to share our strengths, weaknesses , limitations, positives as well as the future opportunities and what better medium can be there than frequent meetings and reunions. These encourage exchange of ideas, information, attitudes, knowledge between the Alumni and the alma mater thus creating everlasting edifice of belongingness. DAVIET Alumni Association has also started Alumni chapters which provide communication channels and programming to meet the needs of its members. By becoming involved in these local chapters, alumni will have an opportunity to connect with their former classmates, seniors, form a professional network with fellow graduates, remain involved with the institute and have lots of fun. DAVIET had organised its first Alumni Chapter at Chandigarh on 16th March 2010. The Second Chapter of DAVIET Alumni Association was unfolded on 17th and 18th March, 2016 in New Delhi. Seeing the success of our First and Second Chapter and with the humongous response that we received from alumni employed in other cities, DAVIET organised its Third Chapter of the Alumni Meet on May 9th 2016. We are planning to extend this tradition of companionship in the other regions as well so that our Alumni who could not make it here due to their prior engagements may also feel connected to this family. We are working on the proposals to open new Alumni Chapters in the cities of Hyderabad, NCR, Chennai and subsequently in the abroad. Eons of civilization may pass but the fond remembrances of our alumni will always last.

5.4.2 – No. of enrolled Alumni:

7000

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet and expert lecture by alumni.

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

- Various different committees at institutional levels and departmental levels are responsible for planning and executing many operational procedures in the

institution. • The entire purchase of the institute is done through the various purchase committees formed from time to time for purchase of various items. • The admission committee is responsible for new admissions, admission campaigns, advertisement and digital marketing. • The Heads of the department have been given the authority to recommend the faculty for attending FDPs, Conferences, Seminars, and Workshops etc.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The curriculum is prescribed by the parent university IKG Punjab Technical University (PTU). The curriculum is revised by the university from time to time. The institution encourages our faculty / department to contribute to enrich the curriculum during the course of its revision. Many faculty members of the institute are the members of the Board of Studies of the University for Various Discipline and they have a say in formulation of the curriculum. Faculty members are encouraged to cover industry relevant topics beyond the syllabus.
Teaching and Learning	<ul style="list-style-type: none"> <li>• The contents beyond syllabus are covered as per the requirements of industry and according to gaps identified in the curriculum.</li> <li>• The teachers are using latest teaching aids in the class rooms.</li> <li>• The final projects to the students are given as per level K5 of the Bloom's Taxonomy.</li> <li>• There is a wellstocked library in the Institute.</li> <li>• There is continuous evaluation of the students through three MSTs, assignments, major and minor projects and tutorials.</li> <li>• The faculty members are sent for FDPs/Orientation Courses/ Refresher Courses to get themselves updated.</li> <li>• The entire campus is WiFi enabled.</li> <li>• The Institute has subscribed to a large number of eresources.</li> </ul>
Examination and Evaluation	<ul style="list-style-type: none"> <li>• The Institute has a transparent and continuous evaluation system.</li> <li>• The mid semester tests are conducted by the office of the control of examination.</li> <li>• Question papers of the mid semester tests are in line with the pattern of the university exams.</li> <li>• Answer sheets are made available to the students and discussed with them.</li> <li>• Parents are</li> </ul>

informed about the performance of the students and their feedback is obtained about the same. • The final internal assessment is displayed on the notice board of the department. • Internal evaluation of the students is a continuous process. The performance of the students is judged continuously in classrooms through participation, quizzes, mid semester tests, practical, assignments, tutorial sheets, group discussions, paper presentations etc. • Record of the student performance in the mid semester test is duly maintained for monitoring the growth of the student in classes and midterm exams.

Research and Development

o The labs of the Institute are equipped with latest instruments to facilitate research. o There are 36 faculty members with Ph.D. degree and many other faculty members are pursuing Ph.D. o The leave is granted for writing thesis and attending Ph.D. course work. o The Institute subscribes to a large of print journals and online journals. o The library of the Institute is wellstocked and automated. o The major research projects by the students conform to level K5 of the Bloom's Taxonomy. o The financial assistance is provided to the students for their projects. o A good number of faculty members of the Institute are supervising Doctoral Research work. o The Institute has got a large number of simulation tools/the latest software and the same are being used for research work.

Library, ICT and Physical Infrastructure / Instrumentation

• The library of the institute is well stocked with more than 32 thousand books. • The institute subscribes to 80 print journals and 2000 online journals. • The entire campus is WiFi enabled. • The institute has a 512 MBPS leased line. • Most of the classrooms are ICT enabled. • Many teachers use multimedia tools in content delivery. • The institute has implemented an ERP system. • The laboratories of the institute are well equipped with latest instruments and software. • The institute has a stateofart physical infrastructure.

Human Resource Management

o The Institute strictly follows the guidelines issued by the Regulatory Authorities and University for

appointment of Faculty. o The pay scales, DA and HRA are given to the entire staff as per the prescribed norms. o There is proper delegation of authority and the Institute has a defined organisational structure. o The division of work is done on the basis of the core competence. o In order to harness their skills, the training programs are arranged from time to time. o The appointments are done in a very fair and transparent manner.

**Industry Interaction / Collaboration**

- There is a dedicated Department of Training Placement in the Institute which is entrusted with the task of interacting with the industry for training and placement of the students.
- The Institute has got the membership of CII (Confederation of Indian Industry) and JMA (Jalandhar Management Association).
- The Institute has tied up with various Industrial Houses such as Wipro, Oracle, Texas Instruments, and Sofcon to name a few. 136
- o The experts from industry are invited for delivering lectures.
- o The Industry Advisory Board of the Institute has eminent persons from industry as members.
- o The persons from industry are represented in the Governing Body of the Institute.
- o The departments of the Institute have got a liaison with the industry at their own level too.
- o The industries have set up their center(s) of excellence in the Institute.
- o The Institute organizes an Industry Week (Departmentwise) every semester.

**Admission of Students**

The admission to various courses is done at two levels i.e. at the level of the University and at the level of the Institute (under management quota/ direct admission). In the first phase, the admission is done by the university through online centralized counseling based on JEE (Mains) rank. The whole process is completed by the University. The students who are allotted this Institute, they report for admission at the Institute. The advertisements for admission are given by the University in all the leading newspapers. The information for admission is also put on the website of the university.

**6.2.2 – Implementation of e-governance in areas of operations:**

E-governance area	Details
-------------------	---------

Planning and Development	Yes
Administration	The institute has implemented an ERP system for smooth functioning.
Finance and Accounts	The accounts of the institutes are computerized. The fees is deposited online.
Student Admission and Support	Yes
Examination	Yes

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Summer Faculty Research Fellow Programme 2018	1	21/05/2018	13/07/2018	53
Research Trends in VLSI Devices and Circuits	1	04/06/2018	08/06/2018	5
Emerging Trends in Industrial System	2	09/07/2018	13/07/2018	5
Advances in Antenna Theory and Techniques	2	03/12/2018	08/12/2018	6
Autism and Assisted Technologies	2	10/12/2018	14/12/2018	5

Soil Interaction and Retaining Walls	1	12/12/2018	15/12/2018	4
Nuclear Power Technologies	1	17/12/2018	21/12/2018	5
Manufacturing Automation Robotics and Process Integration	2	17/12/2018	22/12/2018	6
Research and Women in Science, Technology and Mathematics, Representation and Challenges and Opportunities	2	27/02/2019	28/02/2019	2
Recent Trends in Wireless Communication System	5	25/05/2019	29/05/2019	5
Opportunities and Challenges in Future Workshop	2	06/06/2019	07/06/2019	2
No file uploaded.				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
94	111	46	56

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Leave with pay for Ph.D course work and thesis writing. Creche facility for children of teachers	Creche facility for children of non teaching staff	Free Medical Insurance

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The internal audit of the institute is conducted by staff of DAV College Managing Committee. The annual external audit is conducted by a firm of chartered accountants appointed by DAV College Managing Committee.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
IKG Punjab Technical	50000	Award money for

University

excellence in sports

No file uploaded.

6.4.3 – Total corpus fund generated

0

**6.5 – Internal Quality Assurance System**

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	IKG PTU	Yes	Department of Academics
Administrative	No		Yes	DAV CMC, New Delhi

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Feedback from the parents on the performance of their wards in the mid semester tests. Meeting with the parents as and when required. Providing valuable suggestion for development of the institution.

6.5.3 – Development programmes for support staff (at least three)

Computer training of the office staff. Tally training for the account staff. ERP training of the staff by Saral Info Solutions

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Outcome based education, Activity based learning, Change management, Entrepreneurship

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Workshop on self defense	08/03/2019	08/03/2019	210	10

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

? Environmental Awareness Programme are organized for students as well as faculty from time to time. ? Ewaste is followed as per Govt. Policy. ? Solar system is in place in the form of street lights etc.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	2
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	05/04/2019	5	Unnat Bharat Abhiyan	Household and Village Level Survey	459

No file uploaded.

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct for Employees	01/01/2018	The code of conduct for employees have been issued by DAV College Managing Committee for all the employees of the institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
BHAJAN SANDHYA	01/02/2019	01/02/2019	250
A SPIRITUAL	24/09/2018	24/09/2018	270



AWAKENING: AN  
INTERACTIVE  
DISCOURSE

No file uploaded.

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

? Ewaste is followed as per Govt. Policy. ? Solar system is in place in the form of street lights etc. ? Dustbins have been kept at all prominent places to keep environment ecofriendly. ? Water harvesting system is in place. ? Herbal garden in the campus. ? No vehicles are allowed to enter in academic area. ? A log book of all the trees is being maintained in the institute.

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

TWO BEST PRACTICES I. Title of the Practice Earn While Learn Goal The launch of an initiative called Earn While Learn will collaborate with industries and business owners to educate and develop the skill set of our students. The programme outlines the need to introduce new and innovative skills that arm the youths towards increasing our economic growth and competitiveness. The Context A Program for all the students called "Earn while Learn" where the student of various streams will get the opportunity to work in the institute premises while they pursue their regular curriculum. It will also help to get the industry exposure before completion of their regular studies. This Initiative is having a threepronged impact. On the one hand, students are earning some extra pocket money while on the other, they are getting work experience and handson training while studying, something that is missing in our education system. Students who work with us gain practical knowledge which would certainly prove to be beneficial when they move out of college. Most of the students tend to gain corporate experience while studying and then get into post graduate flagship programs. The traditional Bachelor's degreecentric model has limited utility in a world focused on workforce development. Therefore this initiative becomes an asset when they enter the fulltime job market. The Practice • We have developed a clear and coherent vision of what is essentially important to our students. Accordingly, we have organized the interviews for our students in the institute. • Many Corporate have participated and offered Part Time Jobs to our students based on their respective domains. • Dedicated Block/Labs facilitate in the Institute for the corporate's to establish their setup. • Regular Curriculum has been designed in a way, so the students will get an ample amount of time to work after completion of their classes. • Dedicated Institute Staff has been assigned to monitor the Progress of students on daily basis. Evidence of Success Students improved their Communication Skills, Learn Job specific Skills, Improve their creative thinking, and receive academic credit. They also learn how to interview for a job and develop a job network they can use to find work after graduation. As a result, students present stronger resumes to prospective employers and are better prepared to embark on a career. After getting practical exposure during studies, now they are in a position to compete for jobs, students receive more job offers, are hired more quickly, and are paid higher starting salaries than others competing in the market. Problems Encountered and Resources Required Lack of resources and Less Practical exposure in the curriculum of regular studies is the problem. 'Learning by doing' and 'earning while learning' will become the most important pillar of the future of career development. Practical classrooms required which make the student job ready and enrich their path to a stable employment opportunity across multiple industries and sector both. Candidates must weigh their qualification and skill knowledge more wisely, because at the end what matters in job markets are skills and capabilities, and not just ranks and classroom knowledge. II. Title of the Practice Employability Skill Training

(EST) Goal To enhance career specific skill set(s) of student(s) and to make them globally competent and employable in multinational industries. The context Employability Skill Training(EST) programs help students to understand the expectations of employers in the recruitment process and in the workplace. EST gives young people the opportunity to enhance their work readiness through different blocks of targeted training. Participating in training will help students to understand the expectations of employers in both the recruitment process and as a new employee in the workplace. Hence, we have conducted Employability Skill Training(EST) program in the institute to make them Industry ready. The Practice We have taken the following initiatives in order to strengthen the IndustryAcademia confluence: • Conduct of Industry Week every semester by all departments. • Constitution of Industry Advisory Board with an intent to seek quality inputs for going beyond the prescribed syllabus so as to suit the requirements of industry. • Conduct of a number of expert talks, workshops, training sessions by our alumni and experts from Industry. • Our industrial tieups with Microsoft, Texas Instruments, CISCO etc. also provide necessary industry exposure to the budding engineers. • We have hired the services of competent professional service providers for confidence building and soft skills training. In addition, we also have an adjunct faculty from English Foreign Languages University Hyderabad to groom communication and other soft skills as required for all round development of students. • Dedicated Training Placement/Corporate Relations Cell which maintains a healthy liaison with the topnotch industry. • Dedicated Centre for Entrepreneurship and Incubation. The centre aims to nurture the innovative entrepreneurial ideas of the budding technocrats to set up their ventures and thus enable them to be the job creators rather than job seekers. • The Institute has got the membership of CII (Confederation of Indian Industry) and JMA (Jalandhar Management Association). Evidence of Success • Our Students have placed upto a package of 20lacs. • DAVIET become the Host Institute of MSME for releasing grant upto 15Lacs. • All eligible students placed in Multinational companies. • DAVIET Students become the Entrepreneur and started their own startup. Problems Encountered and Resources Required 'Employability' indicates that a person possesses skills, abilities, and attributes to get a job, and to be successful in his profession, which will lead to overall development of the nation. Students must deliver what is expected from them by the industries. It is also expected that higher education should develop employability among the candidates. Although, education and employability are two separate things, but it has been assumed since long that possessing a higher degree will ensure of getting a good job.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.davietjal.org/wp-content/uploads/2019/12/Best-Practice.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institute has started focusing on the consultancy. The Civil Engineering Department of the institute has been awarded the consultancy by Amritsar Smart City Ltd. for NON DESTRUCTIVE TESTING OF OVERHEAD SERVICE RESERVOIRS (OHSRs) IN AMRITSAR CITY. The detail of the same is Ground water levels in major cities of Punjab have witnessed sharp decline in recent few years and the situation is worsening due to unregulated and over extraction of ground water. In order to check rapid decline and deterioration of ground water, Government has initiated the process to switch over to Surface water (Canal water) based water supply to provide treated potable water in Amritsar city. In this proposal, the Off take is proposed at Tarowali cross regulator and WTP near it on the land owned by

Irrigation Department, GoP. This initiative also require a study of present water storage and supply distribution network of Amritsar city in order to gradually upgrade the existing water supply infrastructure to a robust and sustainable 24x7 surface water source based water supply system. There are 41 RCC Over Head Service reservoirs present in Amritsar city as a part of infrastructure available for water storage and supply distribution network of Amritsar city. Some of these OHSRs are functional and some are non functional due to various reasons. A study is required to make an assessment of present condition and structural integrity of these OHSRs. Amritsar Smart City Ltd.

(ASCL) a PMC for Amritsar Smart City has decided to prepare a report on condition assessment and structural integrity of OHSRs based on Non Destructive Testing. ASCL has awarded the work of preparation of above mentioned report to DAV Institute of Engineering Technology, Jalandhar. The objective of the study is to assess general insitu strength, concrete homogeneity, corrosion risk, Carbonation depth, Cover estimation, uniformity of surface strength. Following tests will be conducted in order to achieve the objectives: 1) Rebound test to evaluate the surface hardness of concrete 2) Ultrasonic Pulse Velocity (UPV) test to measure the sound velocity of the concrete and hence the compression strength of the concrete. 3) Core extraction and testing for in situ strength of concrete 4) Cut And Pull Out (CAPO) Test for in situ strength of concrete 5) Carbonation Test - to estimate depth of carbonation 6) HalfCell Potential Survey to detect the corrosion potential of reinforcing bars in concrete. 7) Visual inspection for condition assessment.

Provide the weblink of the institution

<https://www.davietjal.org/wp-content/uploads/2019/12/7.3.1.pdf>

## 8.Future Plans of Actions for Next Academic Year

Soil is a living medium which serves as a natural nutrient source for growth of plants. The components of soils are mineral, organic matter, water and air, the proportions of which vary and together form a system for plant growth. Soils are studied and classified according to their use. Soil surveys are made for Natural Resource Management and soil testing is conducted as part of Fertilizer Use and Management. n powered by improved varieties of seeds, application of fertilizers and assured irrigation. The existing NPK consumption ratio in the country is skewed at 8.2:3.2:1 (201213) as against the preferred ratio of 4:2:1. A great variability is observed in fertiliser consumption among States from 250 kg / ha in Punjab, 212 kg / ha in Bihar, 207 kg / ha in Haryana to 4.8 kg / ha in Nagaland and 2 kg / ha in Arunachal Pradesh in nutrient form during 201213. However, imbalanced application of fertilisers have caused deficiency of primary nutrients (i.e. NPK), secondary nutrients (such as sulphur), and micronutrients (boron, zinc, copper etc.), in most parts of country. The excessive use of fertilisers in Punjab has become a sensitive issue .Nitrogen based fertilisers like urea, which have been instrumental in increasing crop yields in India, are now turning into potent destroyers by polluting land and water, affecting people's health and leading to climate change. In order to address the problem DAVIET plans to launch Soil Health card scheme forfarmers of Jalandhar District which will carry cropwise recommendations of nutrients and fertilisers required for the individual farms to help farmers to improve productivity through judicious use of inputs. The card will carry the information on EC, pH, Phosphorus,Nitrogen, Potassium micro nutrients which is very important for judicious fertiliser application.All soil samples are to be tested in specific soil testing Lab to be established in DAV IET. Thereafter the experts will analyse the strength and weaknesses (micronutrients deficiency) of the soil and suggest measures to deal with it. The result and suggestion will be displayed in the card. SHC is a printed report that a farmer will be handed over for each of his holdings. It will contain the status of his soil with respect to 12 parameters, namely N,P,K (Macronutrients) S (Secondary nutrient) Zn, Fe, Cu, Mn,

Bo (Micro nutrients) and pH, EC, OC (Physical parameters). Based on this, the SHC will also indicate fertilizer recommendations and soil amendment required for the farm.