

## 2.5.1

Mechanism of internal  
assessment is transparent &  
robust in terms of frequency  
and mode

**(Supporting Documents)**


## **List of Supporting Documents for 2.5.1**

1. Credit Based System
2. IKGPTU Academic Calendar
3. Institute Academic Calendar
4. Time -Table Copies
5. Mid Semester Test Circular
6. Mid Semester Test Circular for question paper setting.
7. Mid Semester Test Date Sheet
8. Make up test circular
9. Sample Assignments
10. Mid Semester Test
11. Internal Evaluation Sheet
12. Question Bank for Slow & Fast Learners
13. Previous year question papers
14. Quiz
15. Mid Semester Test Evaluated answer booklet
16. Online Presentation By Students & Alumni Talk
17. Workshops and Industry Week
18. End Semester Exam form Circular
19. Internal Award List
20. End Semester Results

**CREDIT BASED SYSTEM (CBS)  
APPLICABLE TO**

**CAMPUSES, AUTONOMOUS & AFFILIATED  
COLLEGES/INSTITUTIONS OF I. K. GUJRAL  
PUNJAB TECHNICAL UNIVERSITY**

**DEPARTMENT OF ACADEMICS  
I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY  
JALANDHAR**

  
28/9/2016

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- 4.4. **Credit Based System (CBS):** The CBS provides choice for students to select from the prescribed courses (core, elective and inter-disciplinary courses).
- 4.5. **Program/Discipline:** An educational program/discipline leading to award of a Degree/Diploma/Certificate.
- 4.6. **Course:** Usually referred to, as 'subject' is a component of a program/discipline. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- 4.7. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (Lecture or Tutorial) or two hours of practical work/field work per week.
- 4.8. **Credit Point:** It is the product of grade point and number of credits for a course.
- 4.9. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree/diploma/certificate is prescribed in terms of number of credits to be completed by the students.
- 4.10. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
- 4.11. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
- 4.12. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June.
- 4.13. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- 4.14. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.



courses offered by various departments. The credits for Inter Departmental Courses will be 5%-10% of the total credits of a program/discipline.

## 6. EVALUATION OF ACADEMIC PERFORMANCE OF STUDENTS

The academic performance of student in each course will be evaluated as per Table 1.

**Table 1: Structure of grading academic performance**

S. No.	Grade	Qualitative Meaning	Grade points
1	O	Outstanding	10
2	A <sup>+</sup>	Excellent	9
3	A	Very good	8
4	B <sup>+</sup>	Good	7
5	B	Above Average	6
6	C	Average	5
7	P	Marginal/Pass	4
8	F	Failed	0
9	Ab	Absent	0
10	I	Incomplete	-
11.	E	Detained	0
12	S/US	Satisfactory/Unsatisfactory	-

### Description of Grades:

- 6.1. "O" Grade stands for outstanding achievement. The "P" grade stands for marginal/Pass performance. It is the minimum passing grade in any course.
- 6.2. "I" grade denotes incomplete performance. It may be awarded to a student if he/she does not appear in End Semester Examination due to some extraordinary circumstances.
- 6.3. "E" grade is awarded if student is detained i.e., attendance in theory class/laboratory is less than 75% and the student will have to repeat the course as and when offered.
- 6.4. "F" grade is given to the student who has appeared in the End Semester Examination but failed to get "minimum qualified marks".

6.5. "Ab" grade is awarded if the student is absent in the End Semester Examination without any valid reason.

Corresponding to earned letter grade for each course, the particular grade points are as given in Table 1. The Grade Point Average (GPA) is calculated by taking the number of grade points a student earned in a given period of time divided by the total number of credits undertaken for the studies. Each course is assigned with a weightage called credits. Table 2 shows the procedure to be followed to calculate number of credits for one hour of teaching per week for each course.

**Table 2: Credits corresponding to one hour of Lecture/Tutorial/ Practical**

S. No.	Teaching component	Credit(s)
1	Lecture	01 credit for 01 lecture hour per week
2	Tutorial/Studio*	01 credit for 01 tutorial/studio hour per week
3	Practical/Field Visit*	01 credit for 02 practical/Field visit hour per week. Three/four Laboratory hours per week shall be assigned two credits. Five/six Laboratory hours per week shall be assigned three credits. Seven/eight Laboratory hours per week shall be assigned four credits.
4	Seminar	01 credit for 01 practical/study hour per week
5	Project	01 credit for 01 hour per week or as defined in the syllabus
6	Dissertation	01 credit for 01 practical/study hour per week or as prescribed in the program/discipline.
7	Industrial Training	Equivalent to one semester though comprehensive evaluation mechanism as per defined norms.

*\*Applicable for Architecture*

## 7. EXAMINATION AND ASSESSMENT

The performance of student in each course shall be evaluated through continuous assessment consisting of examinations/tests/quizzes etc. as per the guide lines given in Table 3. An academic calendar indicating the schedule of continuous assessment will be notified by the University before the start of the academic session.

**Table 3: Continuous Assessment Criterion**

Examination (Theory)	Syllabus to be covered in the examination	Time allotted for the examination	Weightage (Marks)	Remarks
Midterm Sessional Test (MST) – I	Upto 33%	1.5 Hour	24%	Best two tests shall be considered and in any case no special test will be conducted for the students who remained absent in any of the MST. MST-I, II, III and quizzes etc constitute internal evaluation.
Midterm Sessional Test(MST) – II	33 % to 66 %	1.5 Hour		
Midterm Sessional Test (MST) – III	66% to 100%	1.5 Hour		
Quizzes/Group discussion / Class discussion/ attendance/ seminars / projects/ case studies assignments etc.	As per discretion of teacher	As per discretion of teacher	16%	
End Semester Examination	100% Syllabus	3 Hours	60%	Checking of answer sheets will be done at the University level. This component is called external evaluation.
Total			100%	Marks may be rounded off to nearest integer
<b>Practical</b>				
Daily evaluation of practical records/Assignment/Viva Voce/ Attendance etc.			60%	Internal evaluation
Final Practical Performance + Viva Voce	100% Syllabus	3 Hours	40%	External evaluation
Total			100%	Marks may be rounded off to nearest integer

There must be an overall Coordinator at the Institution/Department level to coordinate for the proper implementation of the same. Coordinator will ensure that syllabus covered before internal and external evaluation must be as per Table 3.

The marks computed out of 100 shall be used to find grade and grade points for each course/component. Finally grade points of all courses shall be used to compute SGPA and then CGPA.

7.1. All evaluations of different components of a course shall be done in marks for each student. The marks obtained in theory/practical courses or other teaching components shall be scaled to 100 (40 internal evaluation+60 external evaluation for Theory paper and 60 internal evaluation +40 external evaluation for Practical paper) up to next integer value. Finally the grades will be assigned to each student in each course as per following guidelines:

- (a) Absolute grading will be used for class having less than 30 (<30) registered students. The criterion is outlined in Table 4.



**Table 4: Absolute grading criterion**

Sr. No.	Marks	Grade	Grade points
1	$\geq 90$ & $\leq 100$	O	10
2	$\geq 80$ & $< 90$	A+	9
3	$\geq 70$ & $< 80$	A	8
4	$\geq 60$ & $< 70$	B+	7
5	$\geq 50$ & $< 60$	B	6
6	$\geq 45$ & $< 50$	C	5
7	$\geq 40$ & $< 45$	P	4
8	$< 40$	F	0

*Note:-The grade boundaries as indicated above may be marginally adjusted*

- (b) Relative grading will be used for a class having 30 or more ( $\geq 30$ ) registered students as statistical distributions are suitable for samples having 30 or more number of elements. The criterion is outlined in Table 5. Workout example for different values of  $\sigma$  and  $\mu$  and corresponding grades has been given in Annexure-I.

**Table 5: Relative grading criterion**

Sr. No.	Marks	Grade	Grade points
1	$\geq \mu + 1.80\sigma$	O	10
2	$\geq \mu + 1.35\sigma$ and $< \mu + 1.80\sigma$	A+	9
3	$\geq \mu + 0.85\sigma$ and $< \mu + 1.35\sigma$	A	8
4	$\geq \mu + 0.35\sigma$ and $< \mu + 0.85\sigma$	B+	7
5	$\geq \mu$ and $< \mu + 0.35\sigma$	B	6
6	$\geq \mu - 0.35\sigma$ and $< \mu$	C	5
7	$\geq 40\%$ Marks and $< \mu - 0.35\sigma$	P	4
8	$< 40\%$ (Marks)	F	0

*Note:-*

- $\mu$  is mean and  $\sigma$  is standard deviation of marks obtained in the class (Annexure II)
- The grade boundaries as indicated above may be marginally adjusted if there is any violation of upper or lower limits
- Lower and higher outliers can be separated before awarding the grades

**7.2. "F", "Ab", "I", and "P" grades:**

- a) It is compulsory to secure at least 20% marks in each course to be considered for grading. If a student secures less than 20% marks he/she will be awarded "F" grade in that course.

- b) It is also compulsory to appear in the End Semester Examination. If student does not appear in the End Semester Examination without the permission of Hon'able Vice Chancellor/ Dean (Academics), he/she will be awarded "Ab" grade in that course.
- c) "I" grade (Incomplete) would be awarded to the student who has not appeared in the End Semester Examination due to a justified reasons in extraordinary circumstances. "I" grade shall be awarded to the student only after approval from Hon'able Vice Chancellor/ Dean (Academics). In case a student get "I" grade, he/she has to appear only in End Semester Examination. His/her internal assessment marks will be freezed and he/she will be given grade as per mean and standard deviation of his/her original class without modification in grades of other students. In case, absolute grading is applicable then fixed thresholds will be used as per Table 4.
- d) "P" grade shall not be awarded for percentage of marks less than 40%. Still further, no student having 40% or more marks will be awarded failing grade "F" i.e. any student having 40% or more marks will get atleast "P" grade.

7.3. A student can apply for improvement in grade of any course in which he/she has got "P" grade. He/she will be allowed to appear only in End Semester Examination and will be evaluated as per performance of his original class. In any case grade of other students of his/her original class shall not change. The student can improve to the most in two subjects and maximum grade can be up to "A" grade if CGPA is more than 6.0 at the end of degree. However, student can improve more than two subjects and maximum grade can be up to "A" grade to attain the 6.0 CGPA (or 60% marks) if CGPA is less than 6.0 at the end of the degree.

7.4. A student who secures "F" or "Ab" grade will have an option to appear in End Semester Examination i.e. external component. His/her internal assessment marks will be freezed and he/she will be given grade as per mean and standard deviation of his/her original class without modification in grades of other students. In case, absolute grading is applicable then fixed thresholds will be used as per Table 4.

7.9. SGPA and CGPA shall be calculated up to two decimal place, after rounding off the third decimal to the nearest second place integer decimal i.e. 0.005 is to be increased to 0.01. CGPA should be computed after every semester.

7.10. To obtain "O", student has to appear in all the teaching/evaluation component of the course. However, in the view of the merit of the student, the teacher may consider to award "O" grade for a student who has not gone through all the component of the course.

7.11. An honors degree will be conferred at CGPA of 8.0 or above provided student should not have obtained even a single "F", "Ab" or "E" in any course during whole duration of the course.

## 8. COMPUTATION OF SGPA and CGPA

The performance of a student will be evaluated in terms of two indices, viz., semester grade point average (SGPA) and cumulative grade point average (CGPA) for the completed semesters at any point in time. SGPA and CGPA shall be calculated up to two decimal places, thus 0.005 to be rounded off to 0.01.

**8.1. Semester Grade Point Average (SGPA):** The performance of a student in a particular semester will be measured by semester grade point average (SGPA), which is a weighted average of the grades secured in all the courses/teaching components taken in a semester and scaled to a maximum 10.

Let the grade points associated with the letter grades awarded to a student in assigned courses are  $g_1, g_2, g_3, g_4, g_5$  and the corresponding credits are  $w_1, w_2, w_3, w_4, w_5$ , the SGPA will be calculated as

$$\text{SGPA} = \frac{w_1g_1 + w_2g_2 + w_3g_3 + w_4g_4 + w_5g_5}{w_1 + w_2 + w_3 + w_4 + w_5}$$

In general, it can be written as

$$\text{SGPA} = \frac{\sum_{i=1}^m w_i g_i}{\sum_{i=1}^m w_i}$$

Where,

$w_i$  is credit of  $i^{\text{th}}$  course,  $g_i$  is grade point of  $i^{\text{th}}$  course and  $m$  is number of courses in one semester.

Here,  $g_i = p_i g_{is} + p_{ese} g_{iese}$

$p_i$  is the prescribed percentage weightage to Internal Evaluation

$p_{ese}$  is the prescribed percentage weightage to End Semester Evaluation

$g_{is}$  is grade point obtained in Internal Evaluation

$g_{ese}$  is grade point obtained in End Semester Evaluation

For instance, suppose a student is registered for one 5-credit course, four 4-credit courses and one 3-credit course during a semester i.e., a total 24 (5+4×4+3)-credits. If he/she secures O, A+, A, B+, B & P grades respectively in these courses in internal evaluation having 40% weightage and A, B, C, P, B & C grades respectively in end semester examination having 60% weightage, his/her SGPA can be calculated as follows:

SGPA=

$$\frac{(0.4 \times 10 + 0.6 \times 8) \times 5 + (0.4 \times 9 + 0.6 \times 6) \times 4 + (0.4 \times 8 + 0.6 \times 5) \times 4 + (0.4 \times 7 + 0.6 \times 4) \times 4 + (0.4 \times 6 + 0.6 \times 6) \times 4 + (0.4 \times 4 + 0.6 \times 5) \times 3}{24}$$

$$= \frac{44 + 28.8 + 24.8 + 20.8 + 24 + 13.8}{24} = \frac{156.2}{24} = 6.51$$

SGPA will be calculated up to two decimal place only.

**8.2. Cumulative Grade Point Average (CGPA):** The cumulative grade point average (CGPA) indicates the overall academic performance of a student in all the courses registered upto and including the latest completed semester. It is computed in the same manner as the SGPA, considering all the courses (say  $n$ ), and is given by

$$\text{CGPA} = \frac{\sum_{i=1}^n w_i g_i}{\sum_{i=1}^n w_i}$$

The grades of any and all repeated courses shall be included in the official transcripts. However once a student repeats and passes a course in which he/she had failed earlier, the earlier fail grade do not enter into the computation of CGPA.

## 9. CONVERSION OF CGPA TO PERCENTAGE

The conversion of SGPA or CGPA to Percent score will be carried out by multiplication of respective SGPA or CGPA by a factor of 9.5. The equivalence between important percentages in absolute marks system and CGPA is given in Table 6.

**Table 6: Equivalence between Percentages in absolute marks system and CGPA**

CGPA (X)	4	5	6	7	8	9	10
Percentage (Y)	38	47.5	57	66.5	76	85.5	95

$$\text{Percentage (Y)} = \text{CGPA (X)} \times 9.5$$

CGPA of 6 is equivalent to 57 percent.

## 10. EVALUATION SYSTEM FOR CONSTITUENT AND AFFILIATED COLLEGES/INSTITUTIONS OF IKGPTU

### 10.1. Affiliated Institutions

For affiliated Institutions, the End Semester Examination (Theory) will be held at the University level, as per the pattern followed by the University time to time. The grading will be prepared by the University based on the marks obtained by the students in Internal and External Evaluation, both for Practical as well as Theory courses using *Absolute Criteria*. The Students are allowed for re-evaluation for End semester Examination.

### 10.2. Academic Autonomous Institutions

*Relative grading* for Internal Evaluation as well as End Semester Examination will be followed by the Institutions having the Academic Autonomy. The grading will be done at Institute level. The grading will be done after showing the Answer sheets to the students and thereafter no re-evaluation will be done for End Semester Examination for these Autonomous Institutions.

*Jurisdiction: All disputes will be settled under the jurisdiction of Jalandhar Court.*



Annexure-I

Work-out example for different values of ' $\mu$ ' & ' $\sigma$ ' with corresponding Grades

$\mu$	$\sigma$	$\geq \mu+1.80\sigma$	$\geq \mu+1.35\sigma$ and $< \mu+1.80\sigma$	$\geq \mu+0.85\sigma$ and $< \mu+1.35\sigma$	$\geq \mu+0.35\sigma$ and $< \mu+0.85\sigma$	$\geq \mu$ and $< \mu+0.35\sigma$	$\geq \mu-0.35\sigma$ and $< \mu$	$\geq 40\%$ Marks and $< \mu-0.35\sigma$	$< 40\%$ (Marks)
50	10	$\geq 68$	$\geq 63.5$ and $< 68$	$\geq 58.5$ and $< 63.5$	$\geq 53.5$ and $< 58.5$	$50 \geq$ and $< 53.5$	$\geq 46.5$ and $< 50$	$\geq 40$ and $< 46.5$	$< 40$
50	20	$\geq 86$	$\geq 77$ and $< 86$	$\geq 67$ and $< 77$	$\geq 57$ and $< 67$	$50 \geq$ and $< 57$	$\geq 43$ and $< 50$	$\geq 40$ and $< 43$	$< 40$
55	10	$\geq 73$	$\geq 68.5$ and $< 73$	$\geq 63.5$ and $< 68.5$	$\geq 58.5$ and $< 63.5$	$55 \geq$ and $< 58.5$	$\geq 51.5$ and $< 55$	$\geq 40$ and $< 51.5$	$< 40$
55	20	$\geq 91$	$\geq 82$ and $< 91$	$\geq 72$ and $< 82$	$\geq 62$ and $< 72$	$55 \geq$ and $< 62$	$\geq 48$ and $< 55$	$\geq 40$ and $< 48$	$< 40$
60	10	$\geq 78$	$\geq 73.5$ and $< 78$	$\geq 68.5$ and $< 73.5$	$\geq 63.5$ and $< 68.5$	$60 \geq$ and $< 63.5$	$\geq 56.5$ and $< 60$	$\geq 40$ and $< 56.5$	$< 40$
60	20	$\geq 96$	$\geq 87$ and $< 96$	$\geq 77$ and $< 87$	$\geq 67$ and $< 77$	$60 \geq$ and $< 67$	$\geq 53$ and $< 60$	$\geq 40$ and $< 53$	$< 40$
Grade		O	A+	A	B+	B	C	P	F

ORS

## Annexure-II

Work-out example for Calculating ' $\mu$ ' & ' $\sigma$ '

Roll	Marks obtained( $X_i$ )	$(X_i - \mu)$	$(X_i - \mu)^2$
IKGPTU-1	25	0.82	0.68
IKGPTU-2	0	-24.18	584.46
IKGPTU-3	24	-0.18	0.03
IKGPTU-4	33	8.82	77.87
IKGPTU-5	25	0.82	0.68
IKGPTU-6	24	-0.18	0.03
IKGPTU-7	0	-24.18	584.46
IKGPTU-8	24	-0.18	0.03
IKGPTU-9	26	1.82	3.33
IKGPTU-10	24	-0.18	0.03
IKGPTU-11	44	19.82	393.00
IKGPTU-12	29	4.82	23.27
IKGPTU-13	33	8.82	77.87
IKGPTU-14	26	1.82	3.33
IKGPTU-15	24	-0.18	0.03
IKGPTU-16	25	0.82	0.68
IKGPTU-17	36	11.82	139.81
IKGPTU-18	30	5.82	33.92
IKGPTU-19	32	7.82	61.22
IKGPTU-20	24	-0.18	0.03
IKGPTU-21	24	-0.18	0.03
IKGPTU-22	25	0.82	0.68
IKGPTU-23	39	14.82	219.76
IKGPTU-24	30	5.82	33.92
IKGPTU-25	27	2.82	7.98
IKGPTU-26	26	1.82	3.33
IKGPTU-27	24	-0.18	0.03
IKGPTU-28	26	1.82	3.33
IKGPTU-29	24	-0.18	0.03
IKGPTU-30	24	-0.18	0.03
IKGPTU-31	27	2.82	7.98
IKGPTU-32	40	15.82	250.41
IKGPTU-33	12	-12.18	148.25
IKGPTU-34	7	-17.18	295.00

IKGPTU-35	28	3.82	14.63
IKGPTU-36	26	1.82	3.33
IKGPTU-37	24	-0.18	0.03
IKGPTU-38	24	-0.18	0.03
IKGPTU-39	24	-0.18	0.03
IKGPTU-40	24	-0.18	0.03
IKGPTU-41	24	-0.18	0.03
IKGPTU-42	24	-0.18	0.03
IKGPTU-43	26	1.82	3.33
IKGPTU-44	24	-0.18	0.03
IKGPTU-45	25	0.82	0.68
IKGPTU-46	0	-24.18	584.46
IKGPTU-47	24	-0.18	0.03
IKGPTU-48	11	-13.18	173.60
IKGPTU-49	24	-0.18	0.03
IKGPTU-50	24	-0.18	0.03
IKGPTU-51	26	1.82	3.33
IKGPTU-52	7	-17.18	295.00
IKGPTU-53	32	7.82	61.22
IKGPTU-54	27	2.82	7.98
IKGPTU-55	37	12.82	164.46
IKGPTU-56	24	-0.18	0.03
IKGPTU-57	24	-0.18	0.03
IKGPTU-58	27	2.82	7.98
IKGPTU-59	0	-24.18	584.46
IKGPTU-60	24	-0.18	0.03
IKGPTU-61	24	-0.18	0.03
IKGPTU-62	27	2.82	7.98
IKGPTU-63	25	0.82	0.68
IKGPTU-64	28	3.82	14.63
IKGPTU-65	0	-24.18	584.46
IKGPTU-66	24	-0.18	0.03
IKGPTU-67	25	0.82	0.68
IKGPTU-68	26	1.82	3.33
IKGPTU-69	25	0.82	0.68
IKGPTU-70	30	5.82	33.92
IKGPTU-71	24	-0.18	0.03
IKGPTU-72	26	1.82	3.33



Moreover he/she will also have the option to repeat the course by re-registering in that course, whenever it is offered next time.

- 7.5. Every class instructor teaching a class will take attendance till the last instructional day in the semester. The statement of the attendance with marks in MST should be displayed on the notice board and submitted to the department within one week of conduct of the MST. The next day after the last instructional day, a statement of shortage of attendance i.e. detainee student list may be submitted to the department.
- 7.6. A student shall have to attend 75% of Lectures (including tutorials) of a course(s) otherwise he/she will be detained in that course(s).  
Dean (Academics) of the University in case of University/constituent College and Principal/Director in case of affiliated institutions may condone attendance shortage upto 10% in the total for the reasons to be recorded in writing (owning to serious illness, calamity, participation in any game/sports/competitions with the approval of the Institution etc.). However, under no circumstances, a student who has an aggregate attendance of less than 65%, in a semester shall be allowed to appear in the End Semester Examination.
- 7.7. A student is detained in a course, whatever may be the reason for the shortfall in attendance, will not be permitted to sit for the End Semester Examination in the course. He/she will be awarded E grade for the course. In order to earn credits for this course, the student will have to re-register for the course, whenever it is offered next time. The department will not make any adjustment in time table for such students. In case a student is detained in the elective course, atleast one time in one year such course has to be offered to such student by making appropriate arrangements for conducting the classes.
- 7.8. There are no grade points for "F", "Ab", "I" and "E" grades, so they are not considered for SGPA and CGPA. However for calculating total number of credits, all the courses allotted in the semester(s) are considered for calculation of SGPA and CGPA.

PS

IKGPTU-73	34	9.82	96.52
IKGPTU-74	24	-0.18	0.03
<b>TOTAL</b>	<b>1789</b>		<b>5606.72</b>
<b>No. of Students (N)</b>		<b>74</b>	
<b>Mean (<math>\mu</math>) = Total Marks obtained / No. of Students</b>		<b>24.18</b>	
<b>STANDARD DEVIATION (<math>\sigma</math>)</b>			
$\sqrt{\frac{1}{N-1} \sum_{i=1}^n (X_i - \mu)^2}$		$\sqrt{5606.72/73}$ $=8.76$	

*PSix*

# IKGPTU Academic Calender

Office of Dean (Academics)



**PTU**

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

Estd. Under Punjab Technical University Act, 1996  
(Punjab Act No.1 of 1997)

Ref. No. IKGPTU/DA/2597

Dated 24/11/2020

## ACADEMIC CALENDAR

Session: 2020-21 (ODD SEMESTER)-EXISTING BATCHES

Odd Semester		
Sr. No.	Description	Period
1	Session	Classes* have already been started from 03 <sup>rd</sup> August, 2020
2	*First Mid Semester Examination	September, 2020 (28 <sup>th</sup> - 30 <sup>th</sup> )
3	*Second Mid Semester Examination	November, 2020 (2 <sup>nd</sup> - 4 <sup>th</sup> )
4	Preparatory Holidays	25-12-2020 to 31-12-2020
5	End Semester Examination	01-01-2021 to 25-01-2021
6	End Semester Practical Examination	26-01-2021 to 28-01-2021

Even Semester		
Sr. No.	Description	Period
1	Commencement of Session	29.01.2021
2	First Mid Semester Examination	February, 2021 (23 <sup>rd</sup> - 25 <sup>th</sup> )
3	Second Mid Semester Examination	April, 2021 (28 <sup>th</sup> - 30 <sup>th</sup> )
4	Preparatory Holidays	19-05-2021 to 25-05-2021
5	End Semester Examination	26-05-2021 to 25-06-2021
6	End Semester Practical Examination	26-06-2021 to 30-06-2021
7	Vacations	01-07-2021 to 18-07-2021

\* Teaching-Learning through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPARBHA Channels on DTH / Finalisation of Dissertation / Project Work / Internship Reports / E-labs / MSTs / Internal Assessment / Assignment / Students Placement Drive, MS Teams, Google Classroom, Zoom, WebEx, Skype, GotoMeet etc. (till further orders/ as per guidelines issued by Centre Govt./State Govt. / AICTE/UGC/ PCI/CoA /University /Competent Authority from time to time).

Note :

1. Next Academic Session shall commence from **19.07.2021** (Except batch 2020-21).
2. Dates may change for compliance with COVID-19 guidelines / instructions /amendments issued by Centre Govt./State Govt. /AICTE/UGC/ PCI/CoA /Competent Authority from time to time.
3. All the institute may follow a 6-day week pattern for the academic session 2020-21 and 2021-2022 to compensate the loss for this batch of students, if required.

  
Prof. (Dr.) Vikas Chawla  
Dean (Academics)

24/11/2020

"Propelling Punjab to a Prosperous Knowledge Society"

**I. K. Gujral Punjab Technical University**

Jalandhar-Kapurthala Highway, Kapurthala -144 603

Ph.: 01822-282562 Email : deanacad@ptu.ac.in Website : www.ptu.ac.in

## Office of Dean (Academics)



# PTU

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

Estd. Under Punjab Technical University Act, 1998  
(Punjab Act No.1 of 1997)

Ref. No. 1KG PTU/DA/2598

Dated 24/11/2020

### ACADEMIC CALENDAR

Session: 2020-21 (ODD SEMESTER)-NEW ADMISSIONS

(B. TECH. / B. PHARMA/ UGC COURSES – UG LEVEL)

Except B. Tech / B. Pharmacy (Lateral Entry)-2020 ADMISSIONS

Odd Semester		
Sr. No.	Description	Period
1	Session (1 <sup>st</sup> semester )	Classes* already started from 25 <sup>th</sup> September, 2020
2	First Mid Semester Examination	October, 2020 (26 <sup>th</sup> -28 <sup>th</sup> ) December, 2020 (15 <sup>th</sup> -17 <sup>th</sup> )**
3	Second Mid Semester Examination	January, 2021 (14 <sup>th</sup> - 16 <sup>th</sup> )
4	Preparatory Holidays	01.03.2021 to 07.03.2021
5	End Semester Examination	08.03.2021 to 26.03.2021
6	End Semester Practical Examination	27-03-2021 to 31-03-2021
7	Vacations	27-03-2021 to 04-04-2021


Even Semester		
Sr. No.	Description	Period
1	Commencement of Session	05.04.2021
2	First Mid Semester Examination	May, 2021 (26 <sup>th</sup> -28 <sup>th</sup> )
3	Second Mid Semester Examination	June, 2021 (28 <sup>th</sup> - 30 <sup>th</sup> )
4	Preparatory Holidays	01.08.2021 to 08.08.2021
5	End Semester Examination	09.08.2021 to 21.08.2021
6	End Semester Practical Examination	22.08.2021 to 26.08.2021
7	Vacations	22.08.2021 to 29.08.2021

\* Teaching-Learning through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPRAKSHA Channels on DTH / Finalisation of Dissertation / Project Work / Internship Reports / E-labs / MSTs / Internal Assessment / Assignment / Students Placement Drive, MS Teams, Google Classroom, Zoom, WebEx, Skype, GotoMeet etc. (till further orders/ as per guidelines issued by Centre Govt./State Govt. /AICTE/UGC/ PCI/CoA /University /Competent Authority from time to time).

\*\* Those who have not appeared in the Mid Semester or admitted after the mid-semester examination shall appear for Mid semester as mentioned above.

**Note :**

1. Next Academic Session for batch 2020-21 shall commence from **30.08.2021**.
2. Dates may change for compliance with COVID-19 guidelines / instructions /amendments issued by Centre Govt./State Govt. /AICTE/UGC/ PCI/CoA Competent Authority from time to time.
3. All the Institute may follow a 6-day week pattern for the academic session 2020-21 and 2021-2022 to compensate the loss for this batch of students, if required.

  
Prof. (Dr.) Vikas Chawla  
Dean (Academics)

"Propelling Punjab to a Prosperous Knowledge Society"

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Jalandhar-Kapurthala Highway, Kapurthala -144 603

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## Office of Dean (Academics)



# PTU

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

Estd. Under Punjab Technical University Act, 1996  
(Punjab Act No.1 of 1997)

Ref. No. JKAPTU/DA/2599

Dated 24/11/2020

### ACADEMIC CALENDAR

Session: 2020-21 (ODD SEMESTER)-NEW ADMISSIONS

B. TECH. / B. PHARMA (LATERAL ENTRY)-2020 ADMISSIONS, B. ARCHITECTURE  
(1<sup>ST</sup> YEAR) & ALL PG-LEVEL COURSES

Odd Semester		
Sr. No.	Description	Period
1	Session (1 <sup>st</sup> semester )	27-11-2020*
2	First Mid Semester Examination	December 2020 (28 <sup>th</sup> -30 <sup>th</sup> )
3	Second Mid Semester Examination	January, 2021 (27 <sup>th</sup> - 29 <sup>th</sup> )
4	Preparatory Holidays	01.03.2021 to 07.03.2021
5	End Semester Examination	08.03.2021 to 26.03.2021
6	End Semester Practical Examination	27-03-2021 to 31-03-2021
7	Vacations	27-03-2021 to 04-04-2021


  

Even Semester		
Sr. No.	Description	Period
1	Commencement of Session	05.04.2021
2	First Mid Semester Examination	May, 2021 (26 <sup>th</sup> -28 <sup>th</sup> )
3	Second Mid Semester Examination	June, 2021 (28 <sup>th</sup> - 30 <sup>th</sup> )
4	Preparatory Holidays	01.08.2021 to 08.08.2021
5	End Semester Examination	09.08.2021 to 21.08.2021
6	End Semester Practical Examination	22.08.2021 to 26.08.2021
7	Vacations	22.08.2021 to 29.08.2021

Teaching-Learning through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPRAKSHA Channels on DTH / Finalisation of Dissertation / Project Work / Internship Reports / E-labs / MSTs / Internal Assessment / Assignment / Students Placement Drive, MS Teams, Google Classroom, Zoom, WebEx, Skype, GotoMeet etc. (till further orders/ or as per guidelines issued by Centre Govt./State Govt. /AICTE/UGC/ PCI/CoA /University/Competent Authority from time to time).

**Note :**

1. Next Academic Session for batch 2020-21 shall commence from **30.08.2021**.
2. The classes of Lateral Entry students admitted during session 2020-21 shall commence immediately after end semester examination i.e. from 27-08-2020 and extra classes may be arranged to compensate the loss of these Lateral entry students of this batch as the normal semester for previous batches is commencing from 19-07-2020. They will continue further study alongwith 2019-20 batch of students.
3. Dates may change for compliance with COVID-19 guidelines / instructions /amendments issued by Centre Govt./State Govt. /AICTE/UGC/ PCI/CoA Competent Authority from time to time.
4. All the Institute may follow a 6-day week pattern for the academic session 2020-21 and 2021-2022 to compensate the loss for this batch of students, if required.

  
Prof. (Dr.) Vikas Chawla  
Dean (Academics)

"Propelling Punjab to a Prosperous Knowledge Society"

I. K. Gujral Punjab Technical University

Jalandhar-Kapurthala Highway, Kapurthala -144 603

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I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

ACADEMIC CALENDAR

Session: 2020-21 (ODD SEMESTER)-EXISTING BATCHES

Odd Semester		
Sr. No.	Description	Period
1	Session (Old students)	03 <sup>rd</sup> August, 2020 (Classes* have already been started)
2	First Mid Semester Examination	September, 2020 (28 <sup>th</sup> – 30 <sup>th</sup> )
3	Second Mid Semester Examination	November, 2020 (2 <sup>nd</sup> - 4 <sup>th</sup> )
4	Preparatory Holidays	**
5	End Semester Examination	**
6	End Semester Practical Examination	**
7	Winter Vacations	**

Session: 2020-21 (ODD SEMESTER)-NEW ADMISSIONS

(B. TECH. / B. PHARMA/ NON-AICTE (UGC) COURSES – UG LEVEL)


Odd Semester		
Sr. No.	Description	Period
1	Session (1 <sup>st</sup> semester )	25 <sup>th</sup> September, 2020 (Start of classes*)
2	First Mid Semester Examination	October, 2020 (26 <sup>th</sup> -28 <sup>th</sup> )
3	Second Mid Semester Examination	November , 2020 (25 <sup>th</sup> - 27 <sup>th</sup> )
4	Preparatory Holidays	**
5	End Semester Examination	**
6	End Semester Practical Examination	**
7	Winter Vacations	**

\* Commencement of Teaching-Learning through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPRAKHA Channels on DTH / Finalisation of Dissertation / Project Work / Internship Reports / E-labs / MSTs / Internal Assessment / Assignment / Students Placement Drive, MS Teams, Google Classroom, Zoom, WebEx, Skype, GotoMeet etc. (Till further orders).

\*\* Dates will be intimated as per the direction of the Punjab Government / Competent authority after reviewing the situation due to COVID-19 Pandemic

**Note :**1. Academic Calendar for NEW ADMISSIONS – PG Courses will be announced later.

2. Dates may change for compliance with COVID-19 guidelines / instructions /amendments issued by State Govt. /UGC/ Competent Authority from time to time.

  
Prof. (Dr.) Vikas Chawla  
Dean (Academics)

## Office of Dean (Academics)



# PTU

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
Estd. Under Punjab Technical University Act, 1996  
(Punjab Act No.1 of 1997)

Ref. No. IKGPTU/DA/2921

Dated 23.06.2021

### Academic Calendar for Existing Batches (Students admitted before 2020 and LEET students admitted in 2020) for the Session 2021-2022 #

Odd Semester		
Sr. No.	Description	Period
1	Commencement of Session	29/07/2021
2	First Mid Semester Examination	September 2021 (28 <sup>th</sup> - 30 <sup>th</sup> )
3	Second Mid Semester Examination	November 2021 (25 <sup>th</sup> -27 <sup>th</sup> )
4	Preparatory Holidays	December 2021 (08 <sup>th</sup> – 12 <sup>th</sup> )
5	End Semester Examination	December 2021 (13 <sup>th</sup> – 30 <sup>th</sup> )
6	End Semester Practical Examination	December 2021 (31 <sup>st</sup> ) to January 2022 (4 <sup>th</sup> )
7	Winter Vacations*	December 2021 (18 <sup>th</sup> – 31 <sup>st</sup> )

Even Semester		
Sr. No.	Description	Period
1	Commencement of Session	05/01/2022
2	First Mid Semester Examination	February 2022 (24 <sup>th</sup> to 26 <sup>th</sup> )
3	Second Mid Semester Examination	April 2022 (4 <sup>th</sup> to 6 <sup>th</sup> )
4	Preparatory Holidays	May 2022 (3 <sup>rd</sup> – 8 <sup>th</sup> )
5	End Semester Examination	May 2022 (9 <sup>th</sup> – 26 <sup>th</sup> )
6	End Semester Practical Examination	May 2022 (27 <sup>th</sup> ) to June 2022 (2 <sup>nd</sup> )
7	Summer Vacations*	July 2022 (1 <sup>st</sup> – 26 <sup>th</sup> )

# **Teaching-Learning** / Finalization of Dissertation / Project Work / Internship Reports / MSTs / Internal Assessment / Assignment / Students Placement Drive through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPURABHA Channels on DTH / MS Teams / E-labs / Google Classroom / Zoom / WebEx / Skype / Go to Meet etc. (till further orders/ as per guidelines issued by Central Govt./State Govt. / AICTE/UGC/ PCI/CoA /University from time to time).

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Ph.: 01822-282562 Email : deanacad@ptu.ac.in Website : www.ptu.ac.in

Ref. No. IKGPTU/DA/2922

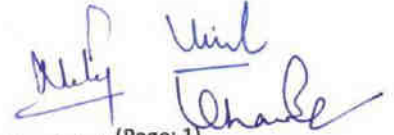
Dated 23-06-2021

**Academic Calendar for 2020 Batch**  
**(Students admitted in 2020 excluding LEET students admitted in 2020)**  
**for the Session 2021-2022 "**

Odd Semester		
Sr. No.	Description	Period
1	Commencement of Session	30-08-2021
2	First Mid Semester Examination	October 2021 (4 <sup>th</sup> – 6 <sup>th</sup> )
3	Second Mid Semester Examination	December 2021 (20 <sup>th</sup> – 22 <sup>nd</sup> )
4	Preparatory Holidays	December 2021 (23 <sup>rd</sup> ) to January 2022 (2 <sup>nd</sup> )
5	End Semester Examination	January 2022 (3 <sup>rd</sup> – 24 <sup>th</sup> )
6	End Semester Practical Examination	January 2022 (25 <sup>th</sup> – 28 <sup>th</sup> )
7	Vacations*	January 2022 (29 <sup>th</sup> ) to February 2022 (6 <sup>th</sup> )

Even Semester		
Sr. No.	Description	Period
1	Commencement of Session	07-02-2022
2	First Mid Semester Examination	April 2022 (7 <sup>th</sup> – 9 <sup>th</sup> )
3	Second Mid Semester Examination	June 2022 (1 <sup>st</sup> – 3 <sup>rd</sup> )
4	Preparatory Holidays	June 2022 (4 <sup>th</sup> – 12 <sup>th</sup> )
5	End Semester Examination	June 2022 (13 <sup>th</sup> ) to July 2022 (5 <sup>th</sup> )
6	End Semester Practical Examination	July 2022 (6 <sup>th</sup> – 8 <sup>th</sup> )
7	Vacations*	July 2022 (9 <sup>th</sup> – 31 <sup>st</sup> )

# **Teaching-Learning** / Finalization of Dissertation / Project Work / Internship Reports / MSTs / Internal Assessment / Assignment / Students Placement Drive through various modes such as Online Learning / Distance Learning / Social Media (WhatsApp / YouTube) / E-mails / Video Conferencing / Mobile Apps / SWAYAMPURABHA Channels on DTH / MS Teams / E-labs / Google Classroom / Zoom / WebEx / Skype / Go to Meet etc. (till further orders/ as per guidelines issued by Central Govt./State Govt. / AICTE/JGC/ PCI/CoA /University from time to time).






"Propelling Punjab to a Prosperous Knowledge Society" (Page: 1)



# Institute Academic Calendar

<b>DAV INSTITUTE OF ENGINEERING &amp; TECHNOLOGY, KABIR NAGAR, JALANDHAR-144008, Punjab (India)</b> <b>ACADEMIC CALENDAR FOR ODD SEMESTER OF THE SESSION (2020) (Online)</b> <i>Accredited by NAAC with "A" Grade &amp; Recognized by UGC under Section 2(f)</i> <b>EPABX-0181-2207650      Fax: 2205851-52      E-mail: daviet@davietjal.org</b>			
S. No.	Name of Activity	Name of Department	Date/Month of Activity
<i>Registration of classes (2<sup>nd</sup> year onwards) 3rd to 7th August, 2020</i>			
<i>Commencement of classes 3rd August, 2020</i>			
1	POSTCOVID-Opportunities in Hotel and tourism sector	BHMCT	07th August, 2020
<i>Janam Ashtami 12th August, 2020 (Wednesday)</i>			
<i>Independence Day 15th August, 2020 (Saturday)</i>			
2	The Importance of culture in food	BHMCT	18th August, 2020
3	Group Discussion on "Current Trends in Placement" (CSE 7th)	CSE	21st August, 2020
4	Webinar on Waste to Wealth Technologies	CE	21st August, 2020
5	Online General Quiz Test	CA	24th - 28th, August 2020
6	Quiz	ECE	26th August, 2020
7	Technical Talk – I (IT 3rd & 5th)	IT	28th August, 2020
<i>Start of three weeks Induction Program 1st September, 2020 onwards (AS Department)</i>			
8	Technical Puzzle on C++ (CSE 3rd)	CSE	07th September, 2020
9	Online Aptitude test for MCA and BCA	BCA/MCA	08th September, 2020
10	Technical Talk - II (IT 7th)	IT	15th September, 2020
11	Grooming and Personality Development	BHMCT	15th September, 2020
12	Expert Talk	ECE	15th September, 2020
13	Webinar on Advances in Concrete Technology	CE	15th September, 2020
14	Online Cultural Event 2020	CA	15th -16th September, 2020
15	Expert Lecture	EE	17th September, 2020
16	Webinar on 5G Technologies	CA	22nd September, 2020
17	World Tourism Day	BHMCT	28th September, 2020
18	Online Technical Quiz (C/C++DBMS)	CA	28th September, 2020
19	Industry Week	IT	28th September – 02nd October, 2020
20	Innovators	ECE	30th September, 2020
21	Online expert Talk (CSE 3rd & 5th)	CSE	30th September, 2020
<i>Birthday of Mahatma Gandhi Ji 2nd October, 2020 (Friday)</i>			
22	Industry Week on Online Mode	ME	05th to 09th October, 2020
23	Online Group Discussion/Mock Interview	CA	08th October, 2020
24	Online Quiz	EE	08th October, 2020
25	IT Workshop - I (IT 3 <sup>rd</sup> )	IT	12th October, 2020
26	Online Industry Week (Expert Talk, Workshop(s) on Emerging Technologies (Cyber Security, IoT& Big Data, AI, ML) Industrial visits	CA	12th -16th October, 2020
27	Online Workshop	ECE	15th October, 2020
28	Webinar on Smart Transportation in India	CE	16th October, 2020
<i>Agarsain Jayanti 17th October, 2020 (Saturday)</i>			
29	Workshop	EE	19th October, 2020
30	Industry Week (Online Workshop)	CSE	19th -21st October, 2020
31	Special Cleaning Programme	BHMCT	Month of October, 2020
32	Expert Lecture	MBA	Month of October, 2020
33	Cocktails V/s Mocktails	BHMCT	Month of October, 2020
34	Expert Lecture in Phonetics in English	AS	21st October, 2020
35	Hackathon	ECE	22nd October, 2020
<i>Dussehra 25th October, 2020 (Sunday)</i>			
36	Expert Lecture in Mathematics	AS	26th October, 2020
37	IT Workshop - II (IT 5th & 7th)	IT	26th October, 2020
38	Online Technical Quiz(DS/DCN/OS)	CA	28th October, 2020
39	Alumni Spoke Activity	CSE	30th October, 2020

40	Webinar on Rain Water harvesting –Indian Context	CE	30th October,2020
<i>Birthday of Maharishi Valmiki Ji 31st October, 2020 (Saturday)</i>			
41	Scientific activity- Role Play	AS	Month of November, 2020
42	Advances in Soil Stabilization	CE	04th November, 2020
43	Expert Lecture	MBA	Month of November, 2020
44	Coding Event by Prisma Club	CSE	09th November, 2020
45	Industry Week	EE	09th -13th November, 2020
46	Poster Making Competition	AS	12th November, 2020
47	Online Test (IT 7th)	IT	12th November, 2020
<i>Diwali 14th November, 2020 (Saturday)</i>			
48	Workshop on Emerging Technology (CSE 3rd )	CSE	23rd November, 2020
49	Knowing Unusual F&B Outlets	BHMCT	Month of November, 2020
50	Session on Night Auditing	BHMCT	Month of November, 2020
51	Expert Lecture in Chemistry	AS	25th November, 2020
<i>Birthday of Shri Guru Nanak Dev Ji 30th November, 2020 (Monday)</i>			
52	Webinar on Data Sciences (CSE 7th )	CSE	08th December, 2020
<i>Martyrdom Day of Shri Guru Teg Bahadur Ji 19th December, 2020 (Saturday)</i>			
<i>Christmas Day 25th December, 2020 (Friday)</i>			
<i>Mid Semester Examinations (MST's) dates will be informed later by CoE (DAVIET)</i>			
Note:-	1. Any changes in departmental activities will be permitted by prior permission of undersigned in intimation to deptt. of Academics		
	2. Report of departmental activities must be send to O/o Dean Academics immediately after completion of the same		
	 Dr. Vinay Chopra Dy. Dean Academics	 Dr. Sudha Sharma Dean Academics	 Dr. Manoj Kumar Principal

**DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR**


**Academic Calendar**  
**Session 2020-21 (Even Semester)- New Admissions B. Tech (1st Year & Lateral Entry-2020 & AIU G-level Courses**


Description	Holiday	Period
Commencement of Session	21, April, 2021 (01 days)	16-04-2021
First Mid Semester Examination	_____	_____
Second Mid Semester Examination	_____	_____
Preparatory Holidays	_____	01-08-2021 to 08-08-2021
End Semester Examination	_____	09-08-2021 to 21-08-2021
End Semester Practical Examination	_____	22-08-2021 to 26-08-2021
Vacations	_____	22-08-2021 to 29-08-2021

*Note:- 80 days are being working in the month of April, May, June and July.*

*Days made working to complete 90 academic days, the 2nd & 4th Saturday in the month of May, June and July (online classes i.e. working) and gazetted holidays dated:- 14 May, 14 & 24 June and 21 July, 2021 (online classes i.e. working) and 01 Sunday(online classes i.e. working)*

*Mid Semester Examinations (MST's) dates will be informed by CoE (DAVIET)*

  
Dr. Vinay Chopra  
Dy. Dean Academics

  
Dr. Sudhir Sharma  
Dean Academics

  
Dr. Manoj Kumar  
Principal

**DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, KABIR NAGAR, JALANDHAR**

**Revised Academic Calendar for students admitted in 2020 excluding LEET students for the session 2021-22  
(For 3rd Semester)**


Description	Period	Holidays	Working Days
Commencement of Session in Hybrid Mode of teaching	02nd September, 2021		22 days working in the month of September, 2021
First MID Term Semester Examination	MST-I scheduled on 15th to 18th November, 2021	2- 15 - 20 October, 2021 (03)	20 Academic days working in the month of October, 2021
Second MID Term Semester Examination	*	4- 5 and 19 Nov, 2021 (03)	20 Academic days working in the month of November, 2021
Preparatory/Holidays	23rd December - 2nd January, 2022	8 Dec, 2021 (01)	15 Academic days working in the month of December 2021
End Semester Examination	3rd to 24th January, 2022		19 Academic days working in the month of January 2022
End Semester Practical Examination	25th January to 28th January, 2022		04 Academic days working in the month of January 2022
Vacations	29th January to 6th February, 2022		
<b>Total Working Days for 3rd Semester Students</b>			<b>22 + 20 + 20 + 15 + 19 + 04 = 100</b>

**Revised Academic Calendar for Students admitted before 2020 and LEET Students admitted in 2020 for the session 2021-22  
(For 5th & 7th Semester)**

Description	Period	Holidays	Working Days
Commencement of Session in Hybrid Mode of teaching	02nd August, 2021	15-20 August (05)	21 days working working in the month of August
			22 days working in the month of September
First MID Term Semester Examination	MST-I scheduled on 11th October, 2021	2- 15 - 20 October (03)	19 days working in the month of October
Second MID Term Semester Examination	MST-II scheduled on 15th - 18th November, 2021	4- 5 and 19 Nov, 2021 (03)	20 days working in the month of November
Preparatory/Holidays	08th Dec - 12th Dec, 2021	8 Dec, 2021 (01)	05 days working in the month of December
End Semester Examination	13th - 30th December, 2021	25 Dec, 2021 (01)	15 days working in the month of December
End Semester Practical Examination	31st December, 2021 - 4th January, 2022		04 days working in the month of December
Vacations	10th - 31st December, 2021		
<b>Total Working Days for 5th &amp; 7th Semester Students</b>			<b>21 + 22 + 19 + 20 + 05 + 15 + 04 = 106</b>

\*Mid Semester Examination (MST's) dates will be informed by Controller of Examination (CoE), DAVIET

  
Dr. Vinod Chopra  
Dy. Dean Academics

  
Dr. Sudhi Sharma  
Dean Academics

  
Dr. Manoj Kumar  
Principal

**DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, KABIR NAGAR, JALANDHAR**  
 Revised Academic Calendar for 2021 BATCH (including LEET students admitted in 2021) for the Session 2021-22

Description	Period	Holidays	Working Days
Commencement of Session	1st October, 2021	2- 15 - 20 October (03)	20 days working in the month of October, 2021
First Mid Term Semester Examination	*	4- 5 and 19 Nov 2021 (03)	20 days working in the month of November, 2021
Second Mid Term Semester Examination	*	8- 25 Dec, 2021 (02)	21 days working in the month of December, 2021
Preparatory Holidays	6th - 9th January, 2022	.....	03 days working in the month of January, 2022
End Semester Examination	10th - 24th January, 2022	.....	13 days working in the month of January, 2022
End Semester Practical Examination	25th - 28th January, 2022	.....	04 days working in the month of January, 2022
Vacations	29th January - 6th February, 2022	.....	.....
Actual working days in the month of October, Noember, December, 2021 & January, 2022			81
Additional working days in the month of November, 2021			3rd Saturday (20th November, 2021) <b>(01 additional day working)</b>
Additional working days in the month of December, 2021			1st and 3rd Saturday (4th -18th December, 2021)
Additional working days in the month of January, 2022			1st Saturday (1st January, 2022) <b>(01 additional day working)</b>
<b>Total Working Days for 1st Year Students</b>			<b>81 + 01 + 02 + 01 = 85</b>

\*Mid Semester Examination (MST's) dates will be informed by Controller of Examination (CoE), DAVIET

  
 Dr. Vinay Chopra  
 Dy. Dean Academics

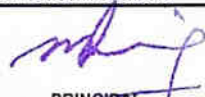
  
 Dr. Sudhir Sharma  
 Dean Academics

  
 Dr. Manoj Kumar  
 Principal

# Time-Table July 2020-DEC 2020

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR  
TIME TABLE FOR IT DEPARTMENT w.e.f JULY 2020 TO DEC 2020

SEMESTER : ODD		ISSUE NO : 01	DATE OF ISSUE:	
<b>DAY</b>	<b>TIME</b>	<b>IT - 3rd SEM</b>	<b>IT - 5th SEM</b>	<b>IT - 7th SEM</b>
M	10:00	OOPS (RV)	Elective-I (AB)	BEA(RJ)
O	10:45	LAB-VI	LAB - V	STQA (PM)
N	11:30	Math-3 (SS)	UHV-2 (RJ)	AJAVA (RK)
D	12:15	DCLD(AM)	FLAT (RV)	BREAK
A	1:00	<b>BREAK</b>	<b>BREAK</b>	
Y	1:45	CA(RB) R-8	Col(GK)	PROJECT
	2:30	DS (DK)	Elective-I (AB)	
	3:15	LAB - IV		
T	10:00	Math-3 (SS)	DBMS(PM)	BEA(RJ)
U	10:45	DS(DK)	JAVA(RK)	SPM(AB)
E	11:30	DCLD	UHV-2 (RJ)	STQA (T) (PM)
S	12:15	LAB	FLAT (RV)	AJAVA (RK)
D	1:00	<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>
A	1:45	DCLD(AM)	SE(GS)	PROJECT
Y	2:30		Col(GK)	
	3:15			
W	10:00	OOPS (RV)	DBMS(PM)	BEA(RJ)
E	10:45	CA(RB)	JAVA(RK)	SPM(AB)
D	11:30	DS (DK)	SE(GS)	STQA (PM)
N	12:15	LAB - VI	UHV-2 (RJ)	<b>BREAK</b>
E	1:00	<b>BREAK</b>	<b>BREAK</b>	PROJECT
S	1:45		JAVA(RK)	
D	2:30		LAB - IV	
AY	3:15			
T	10:00	OOPS (RV)	Elective-I (AB)	AJAVA (RK)
H	10:45	DS (DK)	DBMS(PM)	Project
U	11:30	CA(RB)	JAVA(RK)	
R	12:15	<b>BREAK</b>	FLAT (RV)	SPM (T) (AB)
S	1:00	OOPS (RV)	<b>BREAK</b>	<b>BREAK</b>
D	1:45	LAB - VI	DBMS (PM)	Project
A	2:30		LAB-IV	
Y	3:15			
F	10:00	OOPS (RV)	SE(GS)	STQA (PM)
R	10:45	DS (DK)	DBMS (PM)	SPM(AB)
I	11:30	Math-3(SS)	LAB-IV	AJAVA (RK)
D	12:15	DCLD(AM)	Elective-I (AB)	<b>BREAK</b>
A	1:00	<b>BREAK</b>	<b>BREAK</b>	BEA(RJ)
Y	1:45	Workshop (RK)	SE (GS)	LAB-IV
	2:30	LAB - VI	LAB - V	
	3:15			
DK = Dr. Dinesh Kumar		PM = Dr. P.S. Maan	RV = Dr. Rajeev Kumar	GS = Mr. Gagan Sharma
RK = Mr. Rajesh Kochher		RJ = Mrs. Rajindervir Kaur		AB = Mrs. Avani Chopra
SS = Dr. Sunil Sachdeva		AM = Mr. Ashish Malhotra		

  
PRINCIPAL

  
HEAD OF DEPARTMENT

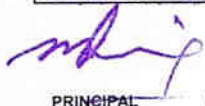
  
TIME TABLE INCHARGE

  
DEPT. TIME TABLE INCHARGE

# Time Table Feb2021-July 2021

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR			
TIME TABLE FOR IT DEPARTMENT w.e.f FEB 2021 TO JULY 2021			
MISMESTER : Even		Date of Issue:	
DAY	TIME	IT- 4th SEM	IT- 6th SEM
M	9:00	DAA (RV) R-8	WC (JD)R-10
O	10:00	DoS (AB) R-8	MIS (PS) R-10
N	11:00	DS (RS) R-8	BD (DK) R-10
D	12:00	CN (PS) R-8	WT(AB) R-10
A	1:00	BREAK	BREAK
Y	2:00	DAA (RV)	BD (DK)
	3:00	LAB-4	LAB-5
	4:00		
T	9:00	DoS (AB) R-8	WC (JD) R-10
U	10:00	CN (PS) R-8	ML(GS) R-10
E	11:00	DS (RS) R-8	BD (DK) R-10
S	12:00	ES (AB) R-8	MIS (PS) R-10
D	1:00	BREAK	BREAK
A	2:00	OS (RB)	
Y	3:00	LAB-4	PROJECT-1
	4:00		
W	9:00	DAA (RV) R-8	WT(AB)
E	10:00	OS(RB) R-8	LAB-6
D	11:00	CN (PS)	ML(GS) R-10
N	12:00	LAB-6	WT(AB) R-10
E	1:00	BREAK	BREAK
S	2:00	DAA (RV)	
D	3:00	LAB-5	
A	4:00		
T	9:00	OS(RB) R-8	WT(AB) R-10
H	10:00	CN(PS) R-8	ML(GS) R-10
U	11:00	OS (RB)	BD (DK) R-10
R	12:00	LAB-4	MIS (PS) R-10
S	3:00	BREAK	BREAK
D	2:00	DoS(AB) R-8	ML(GS)
A	3:00	DS-T (RS) R-8	LAB-5
Y	4:00		
F	9:00	DAA (RV) R-8	MIS(PS)
R	10:00	ES (AB) R-8	LAB-5
I	11:00	OS(RB) R-8	WC (JD)R-10
D	12:00	DS (RS) R-8	BREAK
A	1:00	BREAK	
Y	2:00		PROJECT-1
	3:00		
	4:00		

PS = Dr. Dinesh Kumar (H)	PS = Dr. P.S. Maan	RV=Dr. Rajeev Vashisht	RB= Ms. Reeta Bhardwaj	AB=Ms. Avani Chopra
JD= Mr. Jaswinder Dhillon	GS= Mr. Gagan Kumar	RJ= Ms. Rajindervir Kaur	RS=Dr. Rajni Sharma	

  
PRINCIPAL

  
HEAD OF DEPARTMENT

  
TIME TABLE INCHARGE

  
DEPT. TIME TABLE INCHARGE



Time Table July 2021-Dec 2021

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR  
TIME TABLE FOR IT DEPARTMENT w.e.f JULY 2021 TO DEC 2021

SEMESTER : ODD		ISSUE NO : 01		DATE OF ISSUE:			
DAY	TIME	IT - 3rd SEM		IT - 5th SEM		IT - 7th SEM	
M	9:00	CA(RB) R-8		CL&IPR (AB)	JAVA(RK)	DW&M(GS) R-10	
O	10:00	DCLD(AM) R-8		LAB - VI	LAB - IV	STQA (JD) R-10	
N	11:00	Math-3 (RS) R-8		FLAT (RV) R-9		PROJECT-II (DK)	
D	12:00	BREAK		UHV-2 (JD) R-9		PROJECT-II (RV)	
A	1:00	OOPS (RV)	DCLD (AM)	BREAK		BREAK	
Y	2:00	LAB-VI	LAB	CL&IPR (AB) R-9		Open Elective-II (AI) (DK) R-10	
	3:00	DS (DK)		DBMS (RB)	CL&IPR (AB)	PROJECT-II (RV)	
	4:00	LAB - VI		LAB-IV	LAB - V		
T	9:00	CA(RB) R-8		JAVA(RK) R-9		DW&M(GS) R-10	
U	10:00	DS(DK) R-8		FLAT (RV) R-9		SPM(AB) R-10	
E	11:00	DCLD (AM)	DS (DK)	DBMS(RB) R-9		PROJECT-II (JD)	
S	12:00	LAB	LAB - VI	CL&IPR (AB) R-9		PROJECT-II (RB)	
D	1:00	BREAK		BREAK		BREAK	
A	2:00	IT Workshop (RK)		SE(GS) R-9		Open Elective-II (AI) (DK) R-10	
Y	3:00	LAB - IV		Col (AB) R-9			
	4:00						
W	9:00	OOPS (RV) R-8		JAVA(RK) R-9		DW&M(GS) R-10	
E	10:00	DCLD(AM) R-8		DBMS(RB) R-9		STQA (JD) R-10	
D	11:00	DS (DK)	OOPS (RV)	SE(GS) R-9		SPM(AB) R-10	
N	12:00	LAB - VI	LAB - IV	UHV-2 (JD) R-9		BREAK	
E	1:00	BREAK		BREAK		PROJECT-II (AB)	
S	2:00	OOPS (RV)		JAVA(RK)	DBMS (RB)	Open Elective-II (AI) (DK) R-10	
D	3:00	LAB-VI		LAB - V	LAB-IV	Open Elective-III (MCN) (RMS) R-21	
AY	4:00						
T	9:00	OOPS (RV) R-8		DBMS(RB) R-9		SPM LAB (AB)	DW&M (GS)
H	10:00	DS (DK) R-8		JAVA(RK) R-9		LAB-VI	LAB-IV
U	11:00	LAB - VI	CA(RB) R-8	LAB - V	FLAT (RV) R-9	DW&M (GS)	SPM LAB (AB)
R	12:00	BREAK		UHV-2 (JD) R-9		LAB-IV	LAB-VI
S	1:00	OOPS (RV)	DS (DK)	BREAK		BREAK	
D	2:00	LAB - IV	LAB - VI	Col (AB) R-9		Open Elective-III (MCN) (RMS) R-21	
A	3:00	Math-3 (RS) R-8		DBMS (RB)	SE (GS)		
Y	4:00			LAB - V	LAB - VI		
F	9:00	OOPS (RV) R-8		SE(GS) R-9		STQA (JD) R-10	
R	10:00	DS (DK) R-8		SE (GS)	DBMS (RB)	SPM(AB) R-10	
I	11:00	Math-3(RS) R-8		LAB - V	LAB-IV	PROJECT-II (RK)	
D	12:00	DCLD(AM) R-8		CL&IPR (AB) R-9		PROJECT-II (GS)	
A	1:00	BREAK		BREAK		BREAK	
Y	2:00	IT Workshop (RK)				Open Elective-III (MCN) (RMS) R-21	
	3:00	LAB - VI					
	4:00						

DK = Dr. Dinesh Kumar    RV= Dr. Rajeev Kumar Vashisht    RB= Ms. Reeta Bhardwaj    RK= Mr. Rajesh Kochher  
 AB= Mrs. Avani Chopra    JD= Mr. Jaswinder Singh Dhillon    GS= Mr. Gagan Sharma  
 RS= Dr. Rajni Sharma    AM= Mr. Ashish Malhotra    RMS= Dr. Ramnik Singh

 PRINCIPAL   
  HEAD OF DEPARTMENT   
  DEPT. TIME TABLE INCHARGE   
  DEPT. TIME TABLE INCHARGE

# MST- Circular



## DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/21-22/Exam/279

Circular

Dated : 05/10/21

### Circular


It is for the information of all the students of B.Tech., B. Com., BBA, BCA, and MCA (5<sup>th</sup> & 7<sup>th</sup> semesters only) that 1<sup>st</sup> Mid Semester Tests shall be held w.e.f. 11/10/2021 as per the schedule enclosed. A student failing to appear in any of the MSTs will lose the internal assessment related to that subject accordingly. Each MST shall be of 24 marks and 1.30 hrs duration.

#### Pattern of MSTs (Common to all streams)

- There will be six questions in each MST.
- Two questions (1&2) of 02 marks each, three questions (3, 4 & 5) of 04 marks each and one question (6) of 08 marks.
- Question Nos. 1 – 5 will be compulsory. Question no. 6 will have two choices and the student is required to attempt any one.
- Questions may have sub parts.
- Atleast 40% weightage shall be given to numerical based questions (if any).

#### Notes:

1. The students are advised to take their respective seats in the examination hall 15 minutes before the scheduled start of examination.
2. No extra sheet will be provided.
3. No student shall be allowed to leave the examination hall before half time; however, in case of an emergency a student can leave the examination hall early with the permission of the concerned invigilator.

  
Dr. Devinder Priyadarshi  
Controller of Examination

#### Copy to:-

1. Principal, for information please.
2. All HoD(s): To circulate the above information amongst the students of their respective departments.
3. Website Coordinator: To display the date sheet on the institute website.
4. Information corner, Departmental and Hostel notice boards.

Website : [www.davietjal.org](http://www.davietjal.org)  
Email : [daviet@davietjal.org](mailto:daviet@davietjal.org)

Ph. : 0181-2207650, 2200232, 2343400  
Toll Free : 1860 180 0126



# DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

**Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)**

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/ 21-22/Exam/280

## Circular


Dated : 05/10/21

It is for the information of all the faculty members that I<sup>st</sup> Mid Semester Tests of 5<sup>th</sup> and 7<sup>th</sup> semesters shall be held w.e.f. 11/10/2021 as per the schedule enclosed. A student failing to appear in any of the MSTs will lose the internal assessment related to that subject accordingly. Each MST shall be of 24 marks and 1.30 hrs duration.

### General guidelines for framing the question paper:-

- The question paper shall be strictly in the format already circulated vide an O/o 5972 dated 23/08/2018.
- Questions of Mid Semester Test should be framed corresponding to various knowledge levels of Revised Bloom's Taxonomy.
- Questions of Mid Semester Test should be mapped with the course outcomes of the respective course.
- The course outcomes of the respective course shall also be printed on the question paper.
- 40% and 60% weightage shall be given to LOTS and HOTS respectively while setting the question paper.
- Atleast 40% weightage shall be given to numerical based questions if any.
- **It shall be the duty of the faculty members to intimate the undersigned regarding requirement of any extra material like Log Tables/Graph paper/ Semilog paper/Steam tables/ I S Codes etc. well in time.**

The concerned faculty members are requested to submit the required number of copies of the question paper corresponding to the strength of their class (in a sealed envelope) to the exam branch on or before 07/10/2020.

  
Dr. Devinder Priyadarshi  
Controller of Examination

### Copy to:-

1. Principal, for information please.
2. All HoD(s): To circulate the above information amongst the faculty/Staff members of their respective departments.

Website : [www.davietjal.org](http://www.davietjal.org)  
Email : [daviet@davietjal.org](mailto:daviet@davietjal.org)

Ph. : 0181-2207650, 2200232, 2343400  
Toll Free : 1860 180 0126

# MST-Date Sheet

## DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR

Date sheet for 1<sup>st</sup> Mid Semester Test- October 11, 2021 to October 13, 2021.

### All Programmes

DATE	SHIFT	UGC Courses 5 <sup>th</sup> Sem.				B. Tech. 5 <sup>th</sup> Sem.				B. Tech. 7 <sup>th</sup> Sem.							
		BBA	BCA	B.COM.	MCA	CSE	IT	ECE	EE	ME	CE	CSE	ECE	EE	ME	IT	CE
11 <sup>th</sup> Oct. 2021	I	OR	PHP	FM	MLDA	ERP	JAVA	ADC	PS-1	HT	EG	NS	IoT/ PY	HSSM/ ETAS	MIV	STQA	PPL
	II	ML	JAVA	GST	AWT	DBMS	DBMS	DSP	CS	DoM	EEE	DWM	BD/ AIML	EHV	AIM	DWM	OB
12 <sup>th</sup> Oct. 2021	I	CB/CA/ IRLL	CC	PP/BSM	NLP & SR	FLAT	FLAT	LIC	MP	MEE	CEM	WSN	AI/ SC	DG	FME	SPAI	RVS
	II	ASN/FM/ OCD	SPM	AFM/ ISM		SE	SE	CS	S&P/ RES	MP	EE	A S/W		ESS	DE	MCN	PGDH
13 <sup>th</sup> Oct. 2021	I					CN	CLIPR	R&S/ JAVA			SE	OPEN ELECTIVE (MCN/CS/EECA)					DHS
	II					PP	UHV2	PM			GE	OPEN ELECTIVE (MSE/AI/RES)					

### SHIFT TIMINGS:

Shift-I	10:00 a.m. - 11:30 a.m.
Shift-II	02:30 p.m. - 04:00 p.m.



Controller of Examination



# DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/21-22/Exam/378

Circular

Dated : 9/12/21

It is for the information of faculty and staff that as per the University guidelines, the performance of both the MST(s) is to be taken into account for the internal assessment awards. The entire record pertaining to the awarding of the internal assessment is to be maintained and will be verified by the rationalization committee constituted by the University. However, the students of 5<sup>th</sup> and 7<sup>th</sup> semesters who have already appeared in both the MSTs and their awards have been communicated to them may improve upon their performance in the makeup test(s), which shall be conducted from 16/12/21 to 18/12/21 by the respective subject incharges (Course Instructor).


A student shall adopt the following procedure for appearing in the makeup test.

1. The student desirous of appearing in the makeup test shall fill up the form (available on the website) and get it endorsed from the Exam Branch, DAVIET.
2. The student shall then take a photocopy of the form and deposit the requisite fee in the accounts office.
3. The photocopy of the form shall be retained by the accounts office.
4. The student shall then take the original application form and original receipt to the concerned course instructor for conducting the makeup test.

The last date for depositing the fee in the accounts office is 13/12/21. The student shall report to the course instructors latest by 10:00 a.m. on Wednesday, December 15, 2021.

The students applying for the makeup test in a particular course shall appear in a common test as planned by the concerned course instructor during the above mentioned dates only.

The course instructors shall maintain complete record of the makeup tests conducted by them and shall consider the performance of the students in the makeup test for awarding final internal assessment awards.

  
Dr. Manoj Kumar  
Principal

Copy to:

1. All HoD(s)/HCD(s): For information and circulation amongst the faculty & students of their respective departments.
2. CoE DAVIET: For information and necessary action.
3. Sr. Asstt. (Admn. & Accounts): For information and necessary action.

Website : [www.davietjal.org](http://www.davietjal.org)  
Email : [daviet@davietjal.org](mailto:daviet@davietjal.org)

Ph : 0181-2207650, 2200232, 2343400  
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# Assignments

**DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR**  
**DEPARTMENT OF BUSINESS MANAGEMENT**

MBA – 3<sup>rd</sup> Semester  
**Management of Financial Services (MBA 922)**  
Assignment No. 1

Date of Issue: 22/11/2020

Due Date of Submission: 24/11/2020

---

	Marks	CO	PO	RBT
1. Discuss the performance of top 5 mutual funds of different companies.	10	CO3	PO11,PO 12	L2
2. Explain the credit rating methodology of S & P Credit rating agency.	5	CO4	PO11,PO 12	L2
3. Evaluate the role of factoring in India.	5	CO6	PO11,PO 12	L5

**Class            MBA**

**Semester 1st**

**Subject    Managerial Economics**

**Assignment No. 2**

**Level of difficulty:    Medium**

Date of Issue : 18/10/2021

Date of Submission: 26/10/2021

1. Draw a graph to represent a natural monopoly and describe the circumstances that would permit natural monopoly to exist. Would it be wise for government to break up natural monopolies? Give some examples of natural monopolies.

2. Explain why the demand curve for a firm in perfect competition is horizontal. Illustrate with a graph

**Mapping of assignments Questions with Cos and Pos and Bloom's taxonomy**

<b>S.No</b>	<b>Assignment No.</b>	<b>Cos</b>	<b>POs, PSOs</b>	<b>Bloom's Taxonomy Level</b>
<b>1</b>	<b>1</b>	<b>CO2 , CO3</b>	<b>PO3, PO5, PSO2</b>	<b>2 and 3</b>
<b>2</b>	<b>2</b>	<b>CO3</b>	<b>PO3,PO7, PSO1</b>	<b>3 and 4</b>



**DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR**  
**DEPARTMENT OF BUSINESS MANAGEMENT**

**Assignment 1: Performance and Compensation Management MBA 936-18**

<b>PROGRAM</b>	<b>MBA</b>	<b>SEMESTER</b>	<b>4<sup>th</sup></b>
<b>Date of given</b>	<b>25-2-21</b>	<b>Date of Submission</b>	<b>02-03-21</b>

**NOTE: All questions are compulsory.**

<b>Ques. No.</b>	<b>Questions</b>	<b>COs, RBT Level, POs</b>
<b>1</b>	Identify the various purposes of undertaking performance appraisal of employees. What techniques would you recommend to appraise the performance of the employees?	CO1, L4, PO11
<b>2</b>	Give a detailed description on the concept of 'performance management and employee development'. Highlight the characteristics and process of personal development planning.	CO2, L5, PO11
<b>3</b>	<p>M/S ABC Company enjoyed very low turnover pre-Covid, but during the last two years it had to replace probably one-third of their workforce at their largest facility, about the same number from termination as voluntary. So they had to work harder than ever to recruit.</p> <p>Their most-tenured employees, who were the most highly trained, had to pick up the slack, working record amounts of overtime and less-predictable production schedules.</p> <p>In their upcoming negotiations with the United Auto Workers, they were trying to emphasize short-term bonuses rather than wage increases that get baked into their costs. But they continued health insurance through the pandemic as well as their tuition-reimbursement program, and many employees were thankful for that.</p> <p>But new employees were not as interested in benefits but rather in higher cash wages.</p> <p>Should they be looking at some kind of hybrid model of offering higher compensation to people who want those and move those amounts from the benefits side to the wages side? Give your opinion as per the case.</p>	CO1, CO2, L6, PO2

**DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR**  
**DEPARTMENT OF BUSINESS MANAGEMENT**  
**Assignment: Marketing Research**  
**MBA 302-18**

<b>PROGRAM</b>	<b>MBA</b>	<b>SEMESTER</b>	<b>3<sup>rd</sup></b>
<b>Date of given</b>	<b>25-10-21</b>	<b>Date of Submission</b>	<b>01-11-21</b>

**NOTE: All questions are compulsory.**

<b>Ques. No.</b>	<b>Questions</b>	<b>COs, RBT Level, POs</b>												
<b>1</b>	“Empirical research in India in particular creates so many problems for the researchers”. State the problems that are usually faced by such researchers.	<b>CO1, L5, PO2</b>												
<b>2</b>	Prepare a questionnaire on 5-point Likert scale, to analyze the customer satisfaction level of ALC Bank.	<b>CO3, L3, PO3</b>												
<b>3</b>	Explain the survey method of data collection.	<b>CO1, L2, PO4</b>												
<b>4</b>	<p>A study aimed to determining the reasons for success or failure of small business. A sample of 10 entrepreneurs was asked to indicate the perceived areas of strength of their organizations. Their responses identified 6 variables rated on five point scale. Prepare a questionnaire at the given scale:</p> <table border="1" style="margin-left: 20px;"> <tr> <td>Organizational Strength</td> <td>Code</td> </tr> <tr> <td>Very Strong</td> <td>5</td> </tr> <tr> <td>Strong</td> <td>4</td> </tr> <tr> <td>Neutral</td> <td>3</td> </tr> <tr> <td>Weak</td> <td>2</td> </tr> <tr> <td>Very Weak</td> <td>1</td> </tr> </table>	Organizational Strength	Code	Very Strong	5	Strong	4	Neutral	3	Weak	2	Very Weak	1	<b>CO3, L6, PO5</b>
Organizational Strength	Code													
Very Strong	5													
Strong	4													
Neutral	3													
Weak	2													
Very Weak	1													

**MST's**

# MST 1 (ECE 21.1.2021)

This test will be of 24 marks. A question may have more than one correct answers.

\* Required

\* This form will record your name, please fill your name.

1. II-VI Semiconductors are the direct band gap materials \*  
(2 Points)

True

False

2. The recombination and reflection losses in LEDs can be decreased by choosing \*  
(2 Points)

Homojunction structure

Heterojunction structure

Degenerate Semiconductor

All of the above

3. The dark current in the photodiode \*  
(2 Points)

- is the current when no photon is incident on it
- is the current when the photons are incident on it
- always preferable
- decreases signal to noise ratio

4. In metal- semiconductor, ohmic junctions can be formed \*  
(2 Points)

- by increasing the concentration of impurity atoms
- by decreasing depletion width
- by lowering potential barrier
- by increasing depletion width

5. The fermi level in degenerate N-Type semiconductor is \*  
(2 Points)

- Above the conduction band
- Within the conduction band
- Below the valance band
- At the center of the valence and conduction band

6. The relationship between  $N_1$  and  $N_2$  for stimulated emission to be dominant is \*  
(2 Points)

- $N_1 = N_2$
- $N_1 > N_2$
- $N_2 > N_1$
- No such relationship

7. Laser radiation is \*  
(2 Points)

- highly directional
- monochromatic
- coherent and stimulated
- All of the above

8. The Fermi-level is defined as \*  
(2 Points)

- an average value of all available energy levels.
- an energy level at the top of the valence band.
- the highest occupied energy level at 0C
- the highest occupied energy level at 0K

9. For a semiconductor-based light source, it should be a \*  
(2 Points)

- direct bandgap semiconductor
- indirect direct bandgap semiconductor
- either direct bandgap or indirect bandgap
- the semiconductor cannot be used as a light source

10. Fermi level for extrinsic semiconductor depends upon \*  
(2 Points)

- Impurity concentration
- Temperature
- Both of the above
- None of the above

11. In order to have larger gain in photodiode, which structure is preferred \*  
(2 Points)

- PN junction structure
- PIN structure
- Avalanche structure
- All of the above

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---

12. The generation rate of electron hole pairs depends upon \*  
(2 Points)

- Temperature
- Nature of semiconductor material
- Both of the above
- Concentration of electrons

# CE IInd Sem Quiz( Mechanics of Solids)

Mst 2

\* Required

1. What is your name? \*

---

2. What is your Roll No.? \*

---

3. The ratio of the limiting force of friction (F) to the normal reaction (R) is known as (2 Marks) \* 2 points

*Mark only one oval.*

- Coefficient of friction
- Force of friction
- Angle of friction
- None of the above

4. The velocity of moving in simple harmonic motion is .... at mean position? (2 Marks) 2 points

*Mark only one oval.*

- Maximum
- Minimum
- zero
- none of the above



5. Oscillations are damped due to the presence of ----- (2 Marks)

2 points

*Mark only one oval.*

- linear motion
- restoring force
- mechanical force
- frictional force

6. In a circular motion body experience a force in a radial outward direction it is called (2 marks)

2 points

*Mark only one oval.*

- Centripetal force
- Gravitational force
- Certifugal force
- Newton force

7. What is the gravitational force between two objects. (2 Marks)

2 points

*Mark only one oval.*

- attractive at large distances only
- attractive at small distances only
- attractive at all distances
- attractive at large distances but repulsive at small distances

8. In physics, frame of reference are classified by two main types: (2 Marks) 2 points

*Mark only one oval.*

- true and frictional
- inertial and non-inertial
- fast and slow
- real and imagined

9. if the divergence of a vector field at a given point is 0 then it is said to be ... (2 Marks) 2 points

*Mark only one oval.*

- scalar field
- Vector field
- Solenoidal field
- irrotational field

10. which of the following is an example of non-conservative forces. (2 Marks) 2 points

*Mark only one oval.*

- friction
- electrical field
- gravitational force
- magnetic field

11. The ratio of static friction to dynamic friction is always (2 Marks)

2 points

*Mark only one oval.*

- Equal to one
- Less than one
- Greater than one
- None of these

12. At what displacement total energy of particle is 1/2 kinetic and 1/2 potential? 2 points

*Mark only one oval.*

- $\sqrt{2}/a$
- $\pm a/\sqrt{2}$
- $\sqrt{a}/2$
- none of the above

13. Conservative force can be given in terms potential energy (2 mark)

2 points

*Mark only one oval.*

- $-\nabla V$
- $-\nabla \cdot V$
- $\nabla \times V$
- none

# Internal Evaluation Sheet



# Question Bank

Question Bank

**FOR SLOW LEARNERS**

1. Define Managerial economics.
2. What is normative economics?
3. Discuss two cases of business decision making where managerial economics is used?
4. What is opportunity cost?
5. Write two important roles performed by a managerial economist.
6. What are two important responsibilities of a managerial economist?
7. Discuss the importance of studying managerial economics for a manager.
8. Write two characteristics of managerial economics.
9. Write scope of managerial economics.
10. Write two differences between economics and managerial economics.
11. Define the term „Demand“ as used in economics.
12. What is „Law of demand“?
13. What is Market demand?
14. What is demand schedule?
15. What do you mean by extension of demand?
16. What do you mean by contraction of demand?
17. What do you mean by increase in demand?
18. What do you mean by decrease in demand?
19. What are Normal Goods?
20. What are Inferior Goods?
21. What are complementary Goods?
22. Discuss features of demand.
23. Write two cases where of demand curve slopes upward.
24. Write two factors that influence demand for good / service.
25. Define the term „elasticity of demand“.
26. What is perfectly inelastic demand?
27. What is perfectly elastic demand?
28. What is consumer surplus?
29. Define the term „market“ as used in economics.
30. What is perfect competition?
31. Define monopoly market structure?
32. Discuss two important features of perfect competition.
33. Discuss two important features of imperfect competition.
34. What is monopolistic competition?
35. Define Oligopoly.
36. Discuss two features of monopoly.

37. What do you mean by the term Price discrimination?
38. Discuss two differences between monopoly and perfect competition.
39. Discuss two methods used as non-price competition.
40. Define duopoly market.

### **FOR FAST LEARNERS**

1. Write a short note on Schumpeter's innovation theory of profit and marginal productivity theory of profit.
2. Write a short note on Innovation theory of profit.
3. Write a short note on Risk-Bearing theory of profit.
4. Write a short note on Marginal productivity theory of profit.
5. Write a short note on Dynamic theory of profit.
6. Domestic/household services performed by a woman may not be considered as an economic activity". Defend or refute the given statement with valid reason.
7. Compensation to the victims of a cyclone is an example of a welfare measure taken by the government". State with valid reason, should it be included/not included in the estimation of national income of India.
8. Elaborate the objective of „allocation of resources“ in the Government budget.
9. Discuss briefly how the Government budget can be used as an effective tool in the process of employment generation.
10. „India has emerged as a hotspot for medical tourism“. Defend the statement with valid arguments.
11. Discuss any two steps taken by the government in the direction of improving agricultural marketing system in India, since independence.
12. Discuss briefly the concept of 'informalisation of workforce', in the context of Indian economy.
13. “Agriculture sector appears to be adversely affected by the economic reform process.” Explain the given statement.
14. „Atamirbhar Bharat“ had been at the roots of the Indian planning process in the form of „self reliance“ as an objective of the planning process. Do you agree with the given statement? Justify the rationale of the given statement.
15. Discuss briefly any two major steps taken by the Government of India on „Financial Sector“ front under the Economic Reforms of 1991.
16. „Calorie-based norm is not an adequate measure to identify the poor. Establish the rationale of the given statement with valid reasons.



17. Sale of private vehicles is increasing day by day. Analyse its impact on GDP and Welfare.
18. In the determination of social welfare, what matters is the quantum of output rather than the composition of output. Defend or refute.
19. The government announced the third tranche of the Atmanirbhar Bharat Abhiyan Package. A key initiative is the Production Linked initiative worth up to Rs. 1.46 lakh crore for 10 key sectors. - The Indian Express. What impact is it likely to have on foreign exchange rate and imports and how?
20. In this economy slowdown, how Indian government through its programmes like start up India, Make in India etc can boost up the economy. Analyse the situation and explain the manner in which it is expected to happen.
21. As in today's scenario, pollution is one of the severe problem which India is facing. Elaborate as how application of the traditional practices can be helpful in achieving the objective of sustainable development.
22. Does population growth rate always enlarge the problem of poverty?
23. As Prime Minister urged to enhance non-farm activities in the rural sector. Analyse as how this enhancement will generate more income sources in the rural sector.
24. "India, China and Pakistan have travelled more than seven decades of development path with varied results". Explain the given statement.
25. Is the launch of "Pradhan Mantri Ujjwala Yojna" has any relevancy with the health of the people? Discuss.
26. Is the application of New Education Policy along with National Skill Development Programme will improve the human capital in India? Discuss.
27. Is LPG policies showed some favourable impact on the Indian Economy? Discuss.
28. "It is necessary to create employment in the formal sector rather than in the informal sector." Defend or refute the given statement with valid argument.
29. Give one alternative which one can use to finance the deficit on current account BOP in case official reserves with the RBI are not moved?
30. What EF gap is termed as? Specify the two measures taken.

## **Question bank for legal environment of Business**

### **Slow learners**

- 1) Who is Unpaid Seller? What are his rights?
- 2) What is offer? Explain the features of valid offer.
- 3) What is by Bills of Exchange?
- 4) What is Lien?
- 5) What is delivery of Goods? State the rules of delivery of goods.
- 6) What is Crossing of Cheques? Explain the various types of Crossings.
- 7) What is Bailment? Explain the Kinds of bailment's and its essentials.
- 8) What do you mean by Delivery of goods? Explain its rule.
- 9) What are the various types of crossing of cheques?
- 10) What are the modes of the discharge of contract?
- 11) Explain the Concept of Negotiable Instrument. Set out its Characteristics.
- 12) Explain the term Endorsement.
- 13) Describe the Contract of Indemnity and rights of indemnity holders.
- 14) Enumerate the Concept of Negotiable Instrument and its Features.
- 15) Appointment of agent. Rights and duties of agent.
- 16) "All contracts are agreements but all agreements are not contract" Explain.
- 17) What is offer and Invitation to offer?
- 18) What are the various Types of Agents?
- 19) What are the various types of Hundies.
- 20) When is the communication of an acceptance deemed to be complete?
- 21) Define Partnership. What are the essential elements of partnership?

- 22) When is a payment on negotiable instrument said to be a payment in due course?
- 23) Define a holder of bill and distinguish the holder from holder in due course.
- 24) Write a note on the procedure to be followed on admission of a complaint.
- 25) What are Quasi Contracts and state their characteristics.

### **Fast Learners**

1. "All agreements are not contracts, but all contracts are agreements". Discuss the statement explaining the essential elements of a valid contract.
2. What do you mean by discharge of a contract? Discuss the "Discharge by breach" with examples.
3. What do you mean by "Breach of Contract"? Explain the remedies available to an aggrieved party on breach of a contract.
4. Define Consideration. Are there any cases where a contract without consideration is valid? Explain with examples.
5. Distinguish between:
  - (a) Coercion and under influence
  - (b) Misrepresentation and fraud
  - (c) Void and Illegal agreements
  - (d) 'Void agreements' and 'voidable contracts'
6. "No seller can pass a better title than he himself has". Explain this rule. Are there any exceptions to this rule? Explain.
7. State briefly the rules regarding the transfer of ownership of goods from seller to the buyer.
8. Can a minor be a partner in a partnership firm? Explain his rights and liabilities (Position) under the law of partnership.
9. Define bailment. What are the rights and obligations of finder of goods?
10. Explain the circumstances when the agent becomes personally liable on the contracts entered into by him on behalf of his principal.
11. Explain the rule of "Caveat Emptor". What are the exceptions to this rule?
12. Who is an unpaid seller? Explain his rights as against the goods and the buyer.
13. What is "Sale" and "Agreement to sale"? Distinguish between them.
14. What are the different modes in which a firm may be dissolved?
15. "Risk prima facie passes with property". Comment.
16. "Mare silence as to facts is not fraud". Explain with illustrations.
17. Write a short note on:
  - a) Qualified Acceptance

- b) Presentment for sight
  - c) Acceptor for honour
  - d) Payment for honour
18. 'Any material alteration of negotiable instrument renders the same void'. Discuss.
  19. Explain latest provisions regarding bouncing of cheques.
  20. What is the jurisdiction of various Forums/Commissions for the purpose of Consumer Protection Act,1986?
  21. "Agency in law connotes an authority or capacity in one person to create legal relations between a person occupying the position of principal and third parties". Critically examine the concept of 'agency'. Explain the duties of an agent to principal.
  22. "In quasi contracts the promise to pay is always an implication of law and not fact". Explain giving illustrations.
  23. "The relationship of partnership arises out of contract and not from status". Comment.
  24. Distinguish partnership firm from
    - a) A joint Stock Company
    - b) Co-ownership
    - c) A Joint Hindu Family
  25. Under what circumstances can a breach of condition can be treated as breach of warranty? Meaning of Conditions, Warranties and difference.

# Previous Year Question Paper

R 17  
→ 485 → 470

Roll No. \_\_\_\_\_

Total No. of Pages : 03

Total No. of Questions : 07

B.Com (Professional) (2013 to 2017 Batch) (Sem.-5)

**INCOME TAX-I**

Subject Code : BCOP-502

M.Code : 70422

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

**SECTION-A**

1. Answer briefly :

- (a) Explain the term "Person".
- (b) Define the term Assessment Year.
- (c) Define with examples revenue expenditures.
- (d) Define capital expenditures.
- (e) When an individual become Resident?
- (f) Define the term of Income from others sources.
- (g) Distinguish between house rent allowance and rent free accommodation.
- (h) Distinguish between business and profession.
- (i) Calculate capital gain from following information for the financial year 2019-20  
1500 Share purchased of Star India limited @ Rs. 100 per share as on 22<sup>nd</sup> April 2019. He sold these shares on 15<sup>th</sup> October, 2019 at Rs. 322 per share. He incurred selling expenses Rs. 12 per share.
- (j) Explain the terms Rebates and Reliefs.

**SECTION-B**

2. Mr. Hennery Nicolas, a foreigner came to India from England for the first time on 1<sup>st</sup> April, 2012. He stayed here continuously for 3 years and went Germany on 1<sup>st</sup> April, 2015. He, however, returned to India on 1<sup>st</sup> July, 2015 and went to England on

1<sup>st</sup> December, 2016. He again came back to India on 25<sup>th</sup> January, 2019 on a service in India.

What is his Residential status for the Assessment Year 2019-20?

3. From the following particulars calculate the taxable salary income of Mr. Manik Bhatia for the previous year 2018-19. He is employed as manager in Indian company at Mumbai.

Basic Pay Rs. 90,000 p.m.

Dearness allowance Rs. 40,000 p.m.

House Rent Allowance Rs. 25,000 p.m.

City compensation allowance Rs. 5,000 p.m.

Project allowance Rs. 12000 (Actual amount spent Rs. 8000)

Free gas, electricity and water etc. (actual bill paid by company) Rs. 9000

4. Following are the two particulars of two houses owned by Mr. Aabir :

Municipal Valuation	Rs. 96,000	Rs. 90,000
Fair rent	Rs. 88,000	Rs. 96,000
Standard Rent	Rs. 90,000	Rs. 1,08,000
Actual Rent	Rs. 9000 p.m.	Rs. 10,000 p.m.
Self Occupied	1-4-2018 to 30-11-2018	1-12-2018 to 31-03-2019
Municipal Taxes	Rs. 9,000	Rs. 8,000
Interest on Borrowed Money	Rs. 10,000	Rs. 42,000

Loan taken to construct House-II is still outstanding Loan was taken in 1998.

Find out Mr. Aabir's income from house property for the assessment year 2019-20.

5. Explain the provisions of Income Tax Act 1961 regarding carry forward and set off of losses.
6. Under what circumstances income of other persons can be clubbed in the income of assessee under Income Tax Act, 1961.

- 7 From the following particulars calculate the total taxable income of Mrs. Mamta Sharma for the assessment year 2019-20.

Basic Pay 40,000 p.m.

Dearness allowance Rs. 10,000 p.m.

Long term capital Gain during the previous year 2018-19 Rs. 40,000

Interest on saving account during the previous year 2018-19 Rs. 25,000

Interest on fixed deposit during the previous year 2018-19 Rs. 30,000

Own contribution to recognised provided fund Rs. 40,000 during the previous year 2018-19 Rs. 30,000.

Life insurance paid during the previous year 2018-19 Rs. 52,680

Tuition fee paid of two children during the previous year 2018-19 Rs. 75,360

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**



**Technical Quiz**

**It consists of 3 Sections with each section containing 9-10 MCQ Questions. Each question is of 1 mark.**

**Section-A Alpha Beta Pruning and State Space Search**

1. Which search is equal to minimax search but eliminates the branches that can't influence the final decision?

- a) Depth-first search
- b) Breadth-first search
- c) Alpha-beta pruning
- d) None of the mentioned

2. Which values are independent in minimax search algorithm?

- a) Pruned leaves x and y
- b) Every states are dependant
- c) Root is independant
- d) None of the mentioned

3. To which depth does the alpha-beta pruning can be applied?

- a) 10 states
- b) 8 States
- c) 6 States
- d) Any depth

4. Which search is similar to minimax search?

- a) Hill-climbing search
- b) Depth-first search
- c) Breadth-first search
- d) All of the mentioned

5. Which value is assigned to alpha and beta in the alpha-beta pruning?

- a) Alpha = max
- b) Beta = min
- c) Beta = max
- d) Both a & b

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**Department of Computer Science & Engineering**

CAY: 2020-2021

6. Where does the values of alpha-beta search get updated?
- a) Along the path of search
  - b) Initial state itself
  - c) At the end
  - d) None of the mentioned
7. How the effectiveness of the alpha-beta pruning gets increased?
- a) Depends on the nodes
  - b) Depends on the order in which they are executed
  - c) Both a & b
  - d) None of the mentioned
8. What is called as transposition table?
- a) Hash table of next seen positions
  - b) Hash table of previously seen positions
  - c) Next value in the search
  - d) None of the mentioned
9. Which is the most straightforward approach for planning algorithm?
- a) Best-first search
  - b) State-space search
  - c) Depth-first search
  - d) Hill-climbing search
10. What are taken into account of state-space search?
- a) Post conditions
  - b) Preconditions
  - c) Effects
  - d) Both b & c

**Section-B "Partial Order Planning".**

1. The process by which the brain incrementally orders actions needed to complete a specific task is referred as,
- a) Planning problem
  - b) Partial order planning
  - c) Total order planning
  - d) Both a & b

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2. To complete any task, the brain needs to plan out the sequence by which to execute the behavior. One way the brain does this is with a partial-order plan. State whether true or false.

- a) True
- b) False

3. In partial order plan,

- a. Relationships between the actions of the behavior are set prior to the actions
- b. Relationships between the actions of the behavior are not set until absolutely necessary

Choose the correct option.

- a) a. is true
- b) b. is true
- c) Either a. or b. can be true depending upon situation
- d) Neither a. nor b. is true

4. Which of the following search belongs to totally ordered plan search?

- a) Forward state-space search
- b) Hill-climbing search
- c) Depth-first search
- d) Breadth-first search

5. Which cannot be taken as advantage for totally ordered plan search?

- a) Composition
- b) State search
- c) Problem decomposition
- d) None of the mentioned

6. What is the advantage of totally ordered plan in constructing the plan?

- a) Reliability
- b) Flexibility
- c) Easy to use
- d) All of the mentioned

7. Which strategy is used for delaying a choice during search?

- a) First commitment
- b) Least commitment
- c) Both a & b
- d) None of the mentioned

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8. Which algorithm place two actions into a plan without specifying which should come first?
- a) Full-order planner
  - b) Total-order planner
  - c) Semi-order planner
  - d) Partial-order planner
9. How many possible plans are available in partial-order solution?
- a) 3
  - b) 4
  - c) 5
  - d) 6

**Section-C "Knowledge and Reasoning"**

1. Knowledge and reasoning also play a crucial role in dealing with \_\_\_\_\_ environment.
- a) Completely Observable
  - b) Partially Observable
  - c) Neither a nor b
  - d) Only a and b
2. Treatment chosen by doctor for a patient for a disease is based on
- a) Only current symptoms
  - b) Current symptoms plus some knowledge from the textbooks
  - c) Current symptoms plus some knowledge from the textbooks plus experience
  - d) Only a and b
3. A knowledge-based agent can combine general knowledge with current percepts to infer hidden aspects of the current state prior to selecting actions. State whether True or False.
- a) True
  - b) False
4. A) Knowledge base (KB) is consists of set of statements.  
B) Inference is deriving a new sentence from the KB.  
Choose the correct option.
- a) A is true, B is true
  - b) A is false, B is false
  - c) A is true, B is false
  - d) A is false, B is true

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5. Wumpus World is a classic problem, best example of,

- a) Single player Game
- b) Two player Game
- c) Reasoning with Knowledge
- d) Knowledge based Game

6. ' $\alpha \models \beta$ ' (to mean that the sentence  $\alpha$  entails the sentence  $\beta$ ) if and only if, in every model in which  $\alpha$  is \_\_\_\_\_,  $\beta$  is also \_\_\_\_\_.

- a) True, true
- b) True, false
- c) False, true
- d) False, false

[View Answer](#)

7. Which is created by using single propositional symbol?

- a) Complex sentences
- b) Atomic sentences
- c) Composition sentences
- d) None of the mentioned

8. Which is used to construct the complex sentences?

- a) Symbols
- b) Connectives
- c) Logical connectives
- d) All of the mentioned

9. How many proposition symbols are there in artificial intelligence?

- a) 1
- b) 2
- c) 3
- d) 4

10. How many logical connectives are there in artificial intelligence?

- a) 2
- b) 3
- c) 4
- d) 5



# DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar-144008

ANSWER SHEET

48059

Name: Sahjdeep Singh Father's Name: Basinder Singh

Class Roll No. 152/19 Univ. Regn. No. 1903623 Subject SE

Branch CSE Semester 5<sup>th</sup> Section .....

Mid Semester Test 1 Date 12<sup>th</sup> Oct, 2021

Signatures of the Invigilator

### INSTRUCTIONS FOR STUDENTS

1. Write on both sides of the pages.
2. No answer book or paper of any kind should be taken away from examination hall except the question paper.
3. No page of the answer sheet shall be torn out on any account.
4. Nothing should be written on the question paper/calculator/scale etc. except the Roll No.
5. The use of Mobile phone, programmable calculators, smart watch and digital diaries in the examination hall is not permitted & their usage shall be considered illegal. However the use of scientific calculator is allowed.
6. The student must write in Blue/Black ink only in the answer book.
7. No extra sheet will be provided in any case.
8. Rough work, if any, should be done on the last page of the answer book.
9. The possession of book, paper or any reference material of any kind by the student shall be treated as a case of unfair means according to the rules.
10. This answer book must be handed over to the invigilator before leaving the examination hall even if no question has been attempted.

### MARKS AWARDED

Q. No.	Sections (if any)				Sub-Total
	(a)	(b)	(c)	(d)	
1.					2
2.					2
3.					3
4.					3
5.					3
6.	3	2			6

Total marks in figures:

(21)

Total marks in words:

Twenty one

Signatures & Full name of examiner:

(Dr. Anvareet K.)

Online Presentation by students through Microsoft Teams

**MEANING OF GST**

- ❑ GST is nothing new, but a well designed value added tax that covers both goods and services.
- ❑ GST is a tax that is levied on the value added to a purchased supply (whether goods or a service) before it is sold again.
- ❑ Under the GST regime, tax would be levied on the value addition done at each stage of production and distribution.
- ❑ In the previous tax regime, separate taxes were levied on manufacturing (Excise Duty), on sale within state (VAT), on inter state sale (CST), on provision of taxable services (Service Tax) and on Imports and Exports (Import Duty and Export Duty).
- ❑ But GST would be a comprehensive indirect tax which is levied on Supply of goods or Services or both which includes manufacturing, sale and consumption of both goods and services throughout India.
- ❑ GST would subsume all different kinds of indirect taxes levied by both Central and State

Dr M



Zetoon P



Sapna R



Soma

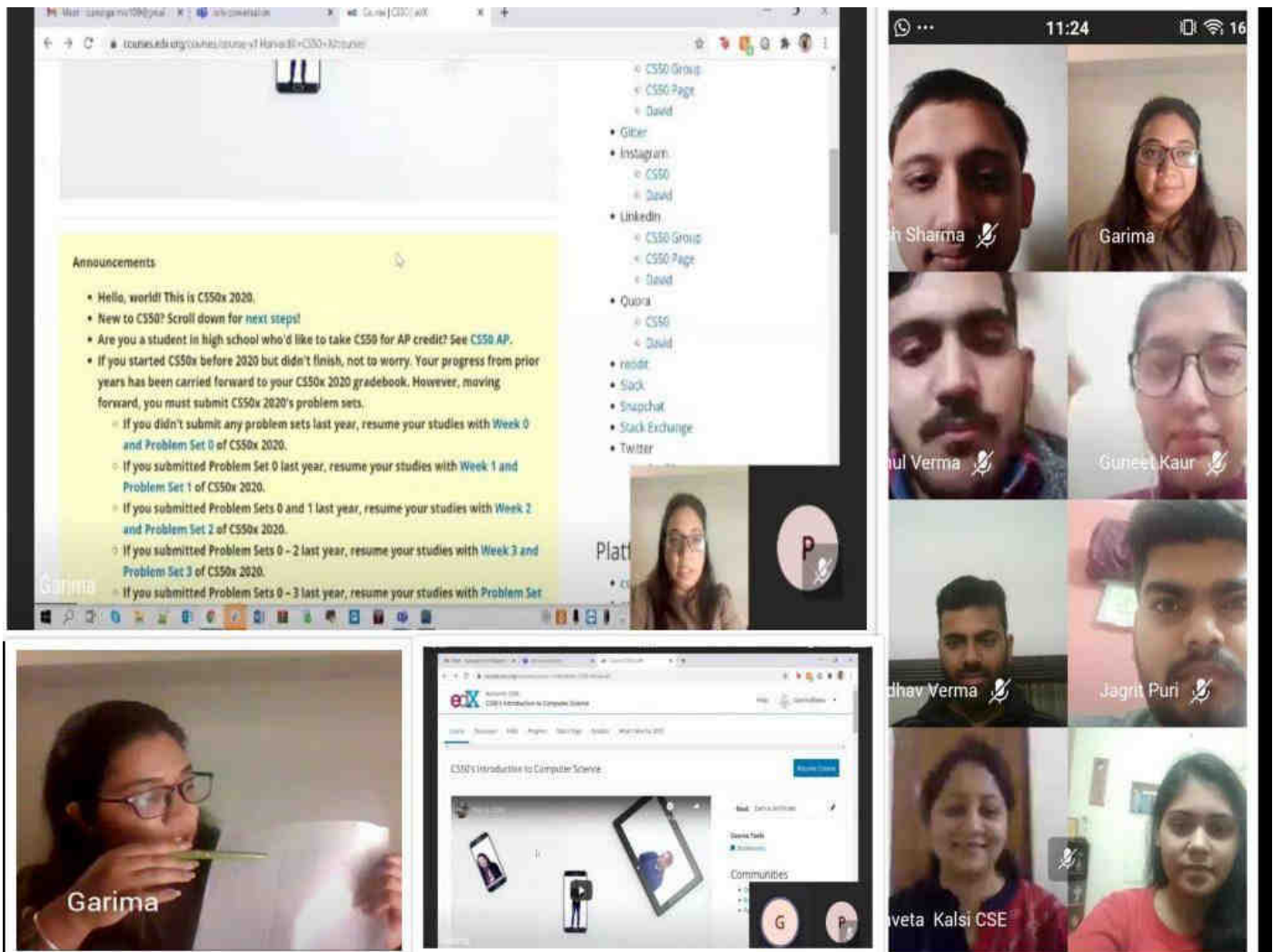




## ALUMNI TALK

For the students who in the upcoming year are going to face the interview board, Department of Computer Science & Engineering took a step to indulge into arranging an online Alumni Talk on 30<sup>th</sup> Oct., 2020. The interaction bore fruitful results for the students of 5<sup>th</sup> Semester. **Ms. Garima Bawa** (CSE Batch 2013-2017), who is currently working as Enterprise Service Manager in EVERTZ Microsystems, Canada's leading Video broadcasting Company, was on her toes to share with the students the nitty gritty of her preparation strategy to get placed into the reputed companies. This event was coordinated by **Ms. Shaveta Kalsi**, Alumni Coordinator, CSE. The key points of the talk were-

- Preparing the basics in the Core Subjects as Interviewers don't really delve too much into the details, but the basics.
- Top trending technologies these days like Big Data and Cloud.
- To be a T-shaped person who not only needs to be expert in one subject but also be aware of the basics of all the other core subjects from the same field.
- More than technicalities, interviewers look for good soft skills in the interviewees.



## Workshop on REACT JS

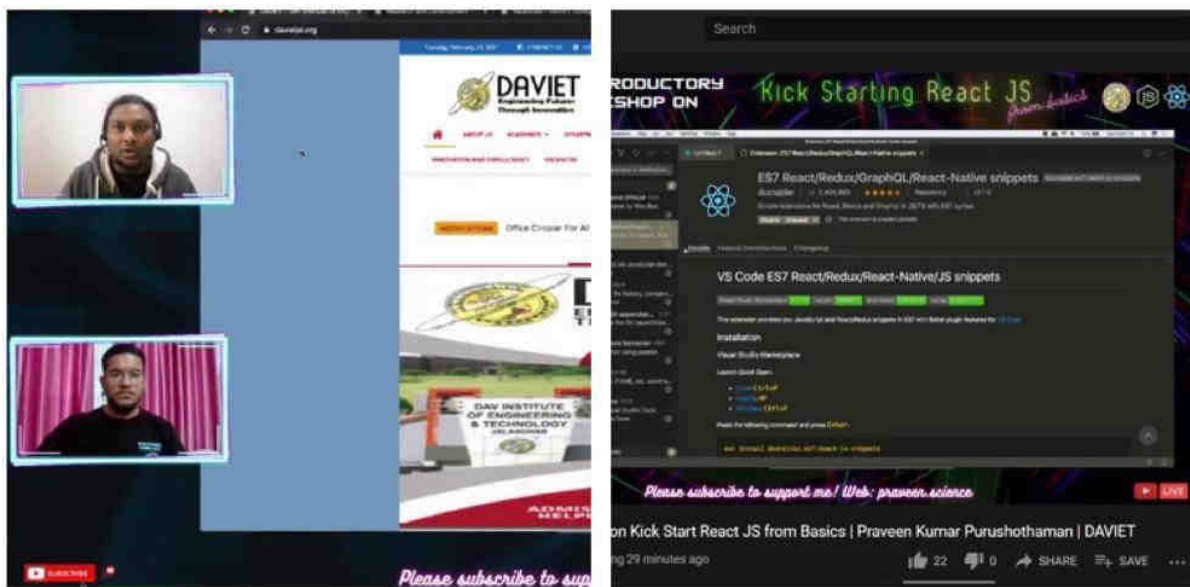
The Department organized a hands on Workshop on REACT JS on 23<sup>th</sup> February 2021. Mr. Praveen Kumar Purushothaman, Lead Consultant at Virtusa from United Kingdom is the resource person for the workshop. Workshop was conducted on YouTube with the agenda for the session as:

- Introduction to React on the Cloud.
- Personalizing the branding part of React Boilerplate.
- Adding Bootstrap CSS & Why not JS?
- Creating a Bootstrap Component.
- Integrating it with States and Props.
- Using Controlled Components to switch the theme

More than 200 participants were registered from various Colleges. The session concluded with Q & A session.

**"From a small seed, a mighty trunk may grow"**

-Aeschylus



## **Industry Week**

A five-day Industry Week was organized by the CSE Department on 19/10/2020 for the students enrolled in their 3rd, 5th, and 7th semester of the bachelor program. The objective of Industrial week was to bridge the gap that separates the development of modern-day tools and the technical skill set students establish during their engineering program. Amid the COVID-19 situation, the workshops were conducted online on Microsoft Teams, with the daily participation of around 160 students. Students were given a hands-on illustration of tools, along with demonstrations of real-time projects.

### **Day-1 and Day-2**

For the first two days, an online workshop was conducted on Ethical Hacking by Solitaire Infosys Pvt. Ltd., Mohali. Ms. Neetu Batra was the expert for the online workshop. The main topics covered in online workshop was

- An introduction to ethical hacking.
- Domains and process implementation under ethical hacking.
- Different kinds of hackers' viz white, grey, black hackers were categorized.
- How to hack the website.
- Various types of hacking like email hacking, network hacking, password hacking, and computer hacking.
- CISCO packet tracer which further includes an introduction to wireless adapters, how to bind routers, switch, computers and transmission media, network simulation, creating a VPN, modifying settings of routers using a command-line interface, and routing of packets.
- Phishing attacks, windows policy editing, Introduction to stenography, and IP configuration in CISCO packet tracer.

### **Day-3 and Day-4**

On day three and day four, the workshop on Machine learning using python was facilitated by Solitaire Infosys Pvt. Ltd., Mohali. The main topics covered in this workshop were

- Basic constructs the python language provides
- Tech-stack and the various technological tools required to build a machine learning project.

The day was concluded with an online programming quiz conducted by EICT, Indian Institute of Technology, Kanpur for which Tejas Bir Singh Rekhi from the 7th semester has cleared the prelims and is invited to the IIT Kanpur campus for the final rounds.

### **Day-5**

Day five centered on front-end development & web-designing. A workshop on UI Kit Flutter was conducted which is an open-source mobile application development SDK created by Google and is used to develop applications for Android and iOS platforms. The workshop was facilitated by O7 Services, an IT Training company based out of Jalandhar. Along with an introduction of the concepts in Flutter, a detailed comparison with React native was presented. It included various factors from both the users' perspective and the underlying architecture involved in these two technologies.

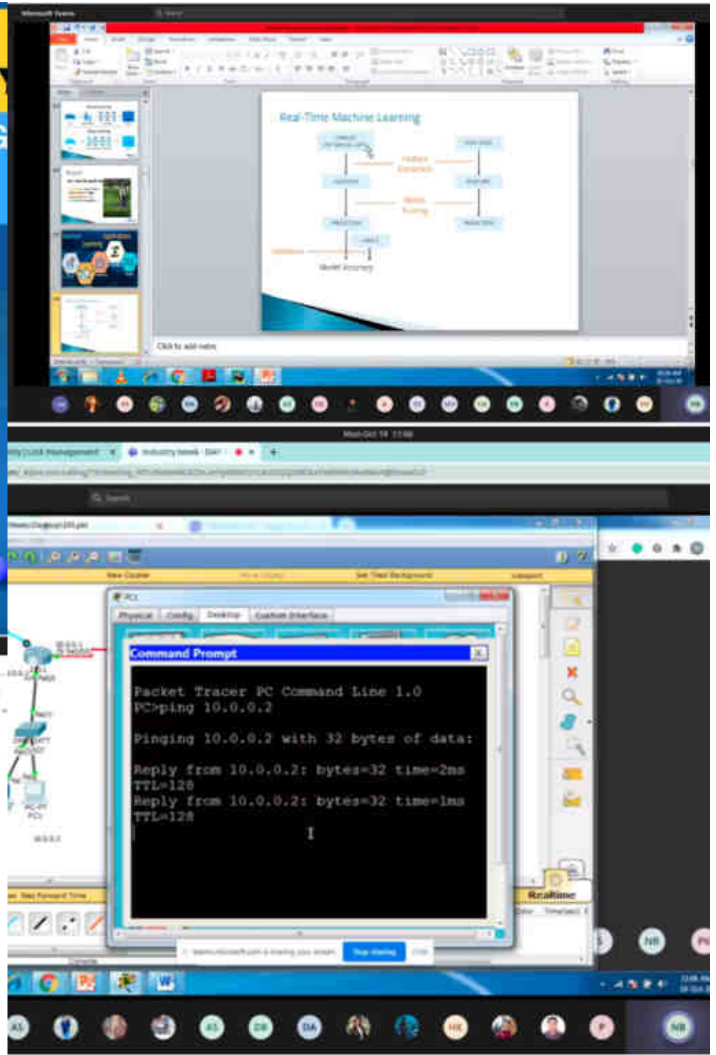
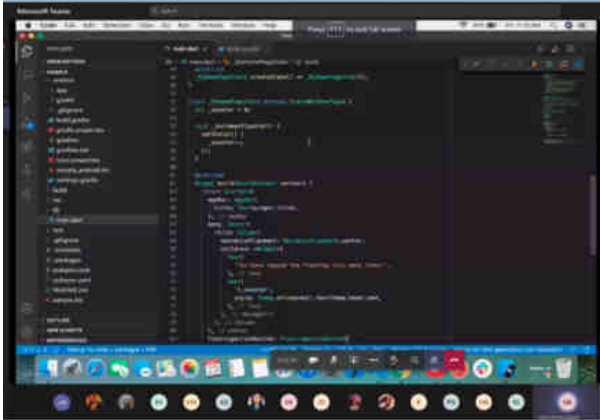
DEPARTMENT OF COMPUTER SCIENCE & ENGG  
**INDUSTRY WEEK**

WORKSHOP

Machine Learning with Python  
Ethical Hacking  
Flutter

October -19 to 23, 2020

Mode of Workshop - Online



# I.K. Gujral Punjab Technical University

(Jalandhar-Kapurthala Highway, Kapurthala)

## NOTICE

Ref. No.: IKGPTU/Exam-April-2021/006

Dated: 25/05/2021

### **Instructions/Schedule for Filling of Reappear (Except 2020-Batch)**

#### **Examination forms for Examination April/May-2021.**

1. Practical examination to be scheduled after the theory Examination.
2. In case student unable to fill examination form due to pending semester upgradation, contact to respective HOD.
3. **Students who were supposed to appear in reappear examination NOV-2020 but could not appear, are hereby informed that their reappear examination forms shall be made available later on and subsequently schedule of examination shall be separately notified.**

S. No.	Examination Fee	Schedule for online Filling of Examination form and Deposit of fee (online).	
	<p>Rs. 700/- per semester for Batch 2016 to 2018.</p> <p>Rs. 1000/- per semester for Batch 2019 onwards.</p>	<p><b>Last date for deposit of Examination fee and Examination Form to be filled by student(s)</b></p> <p><b>(Reappear 1 to 10<sup>th</sup> Sem. Except 2020 Batch) from login Ids of student available at website <a href="http://www.ptuexam.com">www.ptuexam.com</a>.</b></p>	<p>Examination Form verification /confirmation by HOD/ Class In charge from their login Ids.</p>
1	Without Late fee	<b>25.05.2021</b>	<b>to Up to 18.06.2021</b>
2	With Late fee – Rs. 1000/- per sem.	<b>15.06.2021</b>	<b>to Up to 23.06.2021</b>
3	With Late fee – Rs. 2000/- per sem.	<b>22.06.2021</b>	<b>to Up to 29.06.2021</b>
4	With Late fee – In special circumstances Rs. 5000/- per sem. with the permission of University before 24 hours of the start of respective examination.		

**Note:**

a) Examination fee will be charged online from all the students. Examination fee will be charged as applicable on the date of paying fee. If Student fills the Examination Form but does not pay the fee online, it will be treated as cancelled and student shall not be allowed to appear in the examination.

b) No extra fee shall be charged from the student(s) for the verification / confirmation by concerned HOD/Class In-charge of respective Institute(s)

**Instructions for the students:**

1. Regular Examination Form(s) are to be filled by the student from his/her login id available at [www.ptuexam.com](http://www.ptuexam.com) and the same shall be verified/confirmed by concerned HOD/Class In-charge from their login ids as per schedule given above.
2. The compulsory subjects of regular examination form shall be filled by university and the elective subjects shall be filled by the student(s). After filling of elective subjects, the student(s) have to click on confirm Button.
3. If all subjects in which Candidate is appearing are confirmed in Section-B and along with successful transmission of online fee, then Candidate is required to print the examination Form/Fee Receipt and to deposit these hard copies to respective HOD/Class In-charge.
4. In case of the non-confirmation of online payment, the student(s) shall have to wait for 48 hours for reconciliation by the Bank/University.
5. On-line fee transaction ledger will be generated for each and every student and subsequently student shall have to pay the applicable fee by using Debit card/ Credit Card/UPI and Net banking.
6. In case, student filled and locked wrong subject(s), then student should immediately contact the Concerned HOD/Class In charge for Addition/Deletion of any subject(s).
7. In case, there is any discrepancy in the examination form after final confirmation by the HOD concerned, correction fee shall be applicable and the same has to be deposited using Debit card/credit card/UPI/Net banking. Applicable correction fee is: Rs. 700/- per semester (For 2010 to 2018 Batch) and Rs. 1000/- (For 2019 Batch onwards) per semester.
8. If any student forgets his/her password, the same may be obtained from the respective college/institute or Concerned HOD/Class In charge.
9. In case, website is not working or slow then the students are advised to wait for minimum three hours' duration.
10. In case of any query in this regard, student may raise query from query panel available in his/her respective login. For Students query through email shall not be entertained.

**Important steps for filling of Examination forms**

**For Regular Examination Form: Examination Forms are to be filled by student from their login available at website [www.ptuexam.com](http://www.ptuexam.com).**

Steps	Event	Action from login
1	Submission of online Examination forms fee	Online by Student
2	Compulsory Subjects of Regular Examination Form automatically filled by University	University
3	Addition/Deletion of Subject(s)/Exam Form during Confirmation of subject(s)/Form(s).	HOD/ Class In-charge
4	Print of Admit Cards	From the login of student's login

**Controller of Examination**

**Copy to:**  
**All officer related to Examination Branch.**  
**All Institution and Faculty Members.**  
**All Student through login.**

## I.K.Gujral Punjab Technical University

Internal Theory, Practical and External Practical Awards for Examination April-2021 1st Lot

Institute	D.A.V. Institute of Engineering & Technology, Jalandhar
Branch/Sem	Master of Business Administration / 4
Subject	77820 / MBA402-18 / PRACTICAL / Project/Dissertation
Scheme	2763 / Master of Business Administration, Semester-4, 2018
Mode of Conduct of Practical Examination	Online
Max Int-	0
Max. External-	100

Sr.No.	Roll Number	Int. Att	Int Marks	Marks in Words	Ext. Att	Ext. Marks	Marks in Words
1	1903872	NA	NA	NA	P	85	Eighty-Five
2	1903873	NA	NA	NA	P	85	Eighty-Five
3	1903874	NA	NA	NA	P	78	Seventy-Eight
4	1903875	NA	NA	NA	P	82	Eighty-Two
5	1903876	NA	NA	NA	P	85	Eighty-Five
6	1903878	NA	NA	NA	P	85	Eighty-Five
7	1903879	NA	NA	NA	P	82	Eighty-Two
8	1903880	NA	NA	NA	A	0	Zero
9	1903881	NA	NA	NA	P	70	Seventy
10	1903882	NA	NA	NA	P	70	Seventy
11	1903885	NA	NA	NA	P	90	Ninety
12	1903886	NA	NA	NA	P	82	Eighty-Two
13	1903888	NA	NA	NA	P	82	Eighty-Two
14	1903889	NA	NA	NA	P	90	Ninety
15	1903890	NA	NA	NA	P	90	Ninety
16	1903891	NA	NA	NA	P	90	Ninety
17	1903892	NA	NA	NA	P	88	Eighty-Eight
18	1903893	NA	NA	NA	P	78	Seventy-Eight
19	1903894	NA	NA	NA	P	78	Seventy-Eight
20	1903895	NA	NA	NA	P	80	Eighty
21	1903896	NA	NA	NA	P	85	Eighty-Five
22	1903897	NA	NA	NA	P	85	Eighty-Five
23	1903898	NA	NA	NA	P	90	Ninety
24	1903899	NA	NA	NA	P	90	Ninety
25	1903900	NA	NA	NA	P	88	Eighty-Eight
26	1903901	NA	NA	NA	P	87	Eighty-Seven
27	1903902	NA	NA	NA	P	89	Eighty-Nine
28	1903903	NA	NA	NA	P	90	Ninety
29	1903904	NA	NA	NA	P	90	Ninety
30	1903906	NA	NA	NA	P	75	Seventy-Five
31	1903907	NA	NA	NA	P	90	Ninety
32	1903908	NA	NA	NA	P	90	Ninety
33	1903909	NA	NA	NA	P	90	Ninety
34	1903910	NA	NA	NA	P	70	Seventy
35	1903911	NA	NA	NA	P	70	Seventy
36	1903912	NA	NA	NA	P	81	Eighty-One
37	1903913	NA	NA	NA	P	84	Eighty-Four
38	1903914	NA	NA	NA	P	82	Eighty-Two
39	1903915	NA	NA	NA	P	87	Eighty-Seven
40	1903916	NA	NA	NA	P	84	Eighty-Four
41	1903917	NA	NA	NA	P	83	Eighty-Three

Print Date: Monday, June 28, 2021 4:39:55 PM Internal Lock Date: Monday, June 28, 2021 4:39:14 PM





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Sr.No.	Roll Number	Int. Att	Int Marks	Marks in Words	Ext. Att	Ext. Marks	Marks in Words
42	1903918	NA	NA	NA	P	86	Eighty-Six
43	1903919	NA	NA	NA	P	90	Ninety
44	1903920	NA	NA	NA	P	86	Eighty-Six
45	1903921	NA	NA	NA	P	90	Ninety
46	1903922	NA	NA	NA	P	90	Ninety
47	1903924	NA	NA	NA	P	89	Eighty-Nine
48	1903925	NA	NA	NA	P	88	Eighty-Eight
49	1903926	NA	NA	NA	P	86	Eighty-Six
50	1903927	NA	NA	NA	P	85	Eighty-Five
51	1903928	NA	NA	NA	P	90	Ninety
52	1903929	NA	NA	NA	P	86	Eighty-Six
53	1903930	NA	NA	NA	P	84	Eighty-Four
54	1903931	NA	NA	NA	P	80	Eighty
55	1933431	NA	NA	NA	P	82	Eighty-Two

1. Certified that all the Candidates have completed the prescribed course of study and fulfilled all the conditions laid down in the Regulations for the examination and are eligible. The above marks have been matched with original award of each student. In case of any discrepancy filled / Uploaded by me in the award list, I shall be responsible for the consequences.

2. Certified that Internal and External Examiner(s) fulfilling the minimum norms laid down by the university for conduct of External Practical Examination.

Sign & Mobile No. of Internal Faculty Member	Sign of HOD	Name & Sign of Director/Dean (Academics)
 14042(Anil Soni)	 14042(Anil Soni)	
Uploaded By (Name, Sign & Mobile No.)		Name & Mobile No. of External Examiner
Anil Soni  8116100679		Dr. Sanjay Behal 95012 84800

Note: Internal Faculty Members are required to sign on every page with date.



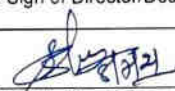

## I.K.Gujral Punjab Technical University

<b>Internal Theory, Practical and External Practical Awards for Examination :April-2021 1st Lot</b>	
Institute D A.V. Institute of Engineering & Technology, Jalandhar	
Branch/Sem	Bachelor of Business Administration / 3
Subject	76656 / BBA302-18 / THEORY / Marketing Management
Scheme	2534 / Bachelor of Business Administration, Semester-3,2018
Mode of Conduct of Practical Examination:	on-line
Max.Int- 40	Max. External- 60

Sr.No.	Roll Number	Int. Att	Int Marks	Marks in Words	Ext. Att	Ext. Marks	Marks in Words
1	1918591	P	28	Twenty-Eight	NA	NA	NA
2	1918627	P	29	Twenty-Nine	NA	NA	NA

**1. Certified that all the Candidates have completed the prescribed course of study and fulfilled all the conditions laid down in the Regulations for the examination and are eligible. The above marks have been matched with original award of each student. In case of any discrepancy filled / Uploaded by me in the award list, I shall be responsible for the consequences.**

**2. Certified that Internal and External Examiner(s) fulfilling the minimum norms laid down by the university for conduct of External Practical Examination.**

Sign & Mobile No. of Internal Faculty Member	Sign of HOD	Name & Sign of Director/Dean (Academics)
 14079(Anju Sharma)	 14042(Anil Soni)	
Uploaded By (Name, Sign & Mobile No.)		Name & Mobile No. of External Examiner
ANJU SHARMA  99145-26142		

Note: Internal Faculty Members are required to sign on every page with date.

## I.K.Gujral Punjab Technical University

Internal Theory, Practical and External Practical Awards for Examination - April-2021 1st Lot	
Institute	D.A.V. Institute of Engineering & Technology, Jalandhar
Branch/Sem.	Bachelor of Commerce (Honours) / 2
Subject	75829 / BCOM-202-18 / THEORY / Business Environment
Scheme	2340 / Bachelor of Commerce (Honours), Semester-2, 2018
Mode of Conduct of Practical Examination:	N/A
Max. Int. -	40
Max. External -	60

Sr. No.	Roll Number	Int. Att	Int Marks	Marks in Words	Ext. Att	Ext. Marks	Marks in Words
1	2003945	P	33	Thirty-Three	NA	NA	NA
2	2003946	P	36	Thirty-Six	NA	NA	NA
3	2003947	P	35	Thirty-Five	NA	NA	NA
4	2003948	P	34	Thirty-Four	NA	NA	NA
5	2003949	P	31	Thirty-One	NA	NA	NA
6	2003950	P	30	Thirty	NA	NA	NA
7	2003951	P	31	Thirty-One	NA	NA	NA
8	2003952	P	30	Thirty	NA	NA	NA
9	2003953	P	32	Thirty-Two	NA	NA	NA
10	2003954	P	31	Thirty-One	NA	NA	NA
11	2003955	P	31	Thirty-One	NA	NA	NA
12	2003956	P	35	Thirty-Five	NA	NA	NA
13	2003957	P	32	Thirty-Two	NA	NA	NA
14	2003958	P	32	Thirty-Two	NA	NA	NA
15	2003959	P	33	Thirty-Three	NA	NA	NA
16	2003960	P	33	Thirty-Three	NA	NA	NA

1. Certified that all the Candidates have completed the prescribed course of study and fulfilled all the conditions laid down in the Regulations for the examination and are eligible. The above marks have been matched with original award of each student. In case of any discrepancy filled / Uploaded by me in the award list, I shall be responsible for the consequences.

2. Certified that Internal and External Examiner(s) fulfilling the minimum norms laid down by the university for conduct of External Practical Examination.

Sign & Mobile No. of Internal Faculty Member	Sign of HOD	Name & Sign of Director/Dean (Academics)
 Anumeet 8284866866	 Anil Soni 14042	
Uploaded By (Name, Sign & Mobile No.)		Name & Mobile No. of External Examiner
Dr. Anumeet, 8284866866		

*Anumeet*  
26/7/21



# I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Formerly known as

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Jalandhar-Kapurthala Highway, Jalandhar

SCHEME: B.Tech. (Information Technology), Semester-3, 2018

INSTITUTE: DAVIET, Jalandhar

NOTIFICATION NO: PTU\Exam\Reg\39386 Dated : 27 Jun 21

EXAMINATION: Nov-2020

RESULT TYPE: Regular

S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
1	1903723	ESHA SANJAY KUMAR	S	B+	B+	A+	B	B	B	B+	A	A+	6.86	21	Pass	
2	1903812	AASTHA NARULA ABHISHEK NARULA	S	A	A	A+	B+	B+	A	A+	O	O	8.14	21	Pass	
3	1903815	AKHIL KATYAL SHAMSUNDER	S	B+	B+	A	B	B+	B+	B+	A+	A	7.14	21	Pass	
4	1903817	AMANAT BALBIR SINGH	S	B+	B+	A	B	B+	B+	A	A+	A+	7.29	21	Pass	
5	1903819	ANMOL SEHDEV SUKHJINDER SINGH	S	B+	A	A	B+	A	A+	O	A	A+	8.10	21	Pass	
6	1903820	ARCHIT GUPTA AKHIL GUPTA	S	F(Ext)	B+	A+	B	B+	B+	B+	A+	A		18	Re-Appear	
7	1903823	AYUSH JULKA AMIT KUMAR JULKA	S	A	B+	O	B+	B+	A	B+	A+	A+	7.71	21	Pass	
8	1903824	AYUSH MAHAJAN VISHAL MAHAJAN	S	B+	B+	A	B	A	B+	A+	A+	A+	7.52	21	Pass	
9	1903826	DIPIKA PAUL HARVINDER PAUL	S	F(Ext)	B+	A+	F(Ext)	B	F(Ext)	B+	A	A		12	Re-Appear	
10	1903827	DUSHYANT JULKA CHETAN JULKA	S	B	F(Ext)	A	B	B	B	B	A+	A		18	Re-Appear	
11	1903828	GAURAV SHARMA RAMAN SHARMA	S	B+	B+	A	B	B+	B+	B	A+	A	7.05	21	Pass	
12	1903829	GURKIRAT SINGH YASHPAL SINGH	S	A	B+	A+	B+	A	A	A+	A+	A	7.95	21	Pass	

Ordinance & Scheme seen, the result may be declared and published please Published

EDP CELL  
Prepared by

Checked by

Assistant Registrar(E)

Deputy Controller(Exam)

Controller of Examinations

Ab / Absent UMC - Unfair Mean Case

Int - Internal Examination

Ext - External Examination

RL - Result Late

Bold-Means, Student Appeared in Reappear/Revaluation Exam.- Nov-2020

### Structure of grading academic performance

Grade	O	A+	A	B+	B	C	P	F	Ab	E	I	S/UN
Qualitative. Meaning	Outstanding	Excellent	Very Good	Good	Above Average	Average	Marginal/Pass	Failed/ReAppear	Absent	Detained	Incomplete	Satisfactory/Not-Satisfactory
Grade Point	10	9	8	7	6	5	4	0	-	0	-	-



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S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
13	1903830	GURSIMAR KAUR PARMINDER SINGH	S	B+	A	A	B+	A	A	A	A	A+	7.76	21	Pass	
14	1903835	ISHITA SETH RAJINDER KUMAR	S	A	A	A+	B+	A	A	A	A	A+	7.95	21	Pass	
15	1903836	JAGMANJEET SINGH SURINDER SINGH	S	B	A	A+	B+	B	B+	A+	A	A+	7.33	21	Pass	
16	1903840	LAKSHI ARVIND SEKHRI	S	A	B+	A	B+	B+	B+	B+	A+	A+	7.48	21	Pass	
17	1903841	MAMTA PREM NATH	S	B+	B+	A+	B+	B+	B+	B+	A+	A+	7.38	21	Pass	
18	1903844	MEHAK BHASIN RAKESH BHASIN	S	A	A	A+	B+	A	A	A	A+	A+	8.05	21	Pass	
19	1903845	MEHAK SHARMA AVNEET MASAND	S	A	A	A+	B	A	B+	A	O	O	7.90	21	Pass	
20	1903846	NAIYA GULATI TILAKRAJ GULATI	S	A	B+	A+	B+	B+	A	B+	A+	O	7.71	21	Pass	
21	1903848	NITESH JASWAL DALJEET SINGH	S	B+	A	A+	B+	B+	B+	B	A	O	7.38	21	Pass	
22	1903851	POONAM RANI GURBAKSH SINGH	S	A	A	A	B+	B+	A	B+	A+	A+	7.76	21	Pass	
23	1903852	PRABHJOT SINGH JASWINDER SINGH	S	B+	B+	A+	B+	B+	B+	B	A	A	7.14	21	Pass	
24	1903853	PRASHANT GAUR OMPRAKASH GAUR	S	B+	B+	B+	F(Ext)	B	F(Ext)	B	A	A		15	Re-Appear	

Ordinance & Scheme seen, the result may be declared and published please Published

EDP CELL  
Prepared by

Checked by

Assistant Registrar(E)

Deputy Controller(Exam)

Controller of Examinations

Ab / Absent UMC - Unfair Mean Case

Int - Internal Examination

Ext - External Examination

RL - Result Late

Bold-Means, Student Appeared in Reappear/Revaluation Exam.- Nov-2020

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**SCHEME: B.Tech. (Information Technology), Semester-3, 2018**

**INSTITUTE: DAVIET, Jalandhar**

**NOTIFICATION NO: PTU\Exam\Reg\39386 Dated : 27 Jun 21**

**EXAMINATION: Nov-2020**

**RESULT TYPE: Regular**

S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
25	1903855	RAGHAV KAPOOR ASWANI KUMAR	S	A	B+	A+	B+	B+	B+	A	A	A+	7.52	21	Pass	
26	1903858	RITIKA SAINI BALDEV RAJ SAINI	S	B	B+	A+	B+	B+	A	A+	A	A	7.43	21	Pass	
27	1903862	SAURAV DEV GIRISH CHANDER	S	F(Ext)	F(Ext)	A	F(Ext)	F(Ext)	F(Ext)	B	A	A		6	Re-Appear	
28	1903864	SHUBHAM SACHDEVA RAJEEV KUMAR	S	B+	B+	A+	F(Ext)	B+	A	B+	A+	A		18	Re-Appear	
29	1903866	TANISH ARYA VEER SINGH KALRA MANINDER PAL SINGH	S	F(Ext)	B+	A	F(Ext)	F(Ext)	B+	B+	A	A		12	Re-Appear	
30	1903867	TUSHAR SEHDEV SANJEEV SEHDEV	S	F(Ext)	B+	A+	B	B+	F(Ext)	B	A	A+		15	Re-Appear	
31	1903868	VAIDHI KAPOOR KARAN KAPOOR	S	B+	B+	A+	B+	A	A	A	A+	A+	7.76	21	Pass	
32	1903869	VIPAN CHOPRA KULWINDER KUMAR	S	F(Ext)	B	B+	F(Ext)	F(Ext)	B+	B+	A	A		12	Re-Appear	
33	1903870	VISHAL RAJ KUMAR	S	A	B+	A+	B+	B+	B+	B+	A+	A+	7.52	21	Pass	
34	1903871	VISHAL GOEL RAMNEEK GOEL	S	B+	B+	A+	B+	B+	B+	B	A+	A+	7.29	21	Pass	
35	1933320	RAHUL JAIN KUSHAL JAIN	S	F(Ext)	B	A+	B+	B+	B	B	A	A		18	Re-Appear	

Ordinance & Scheme seen, the result may be declared and published please      Published

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Prepared by

Checked by

Assistant Registrar(E)

Deputy Controller(Exam)

Controller of Examinations

Ab / Absent UMC - Unfair Mean Case

Int - Internal Examination

Ext - External Examination

RL - Result Late

Bold-Means, Student Appeared in Reappear/Revaluation Exam.- Nov-2020

### Structure of grading academic performance

Grade	O	A+	A	B+	B	C	P	F	Ab	E	I	S/UN
Qualitative. Meaning	Outstanding	Excellent	Very Good	Good	Above Average	Average	Marginal/Pass	Failed/ReAppear	Absent	Detained	Incomplete	Satisfactory/Not-Satisfactory
Grade Point	10	9	8	7	6	5	4	0	-	0	-	-



# I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Formerly known as

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Jalandhar-Kapurthala Highway, Jalandhar

SCHEME: B.Tech. (Information Technology), Semester-3, 2018

INSTITUTE: DAVIET, Jalandhar

NOTIFICATION NO: PTU\Exam\Reg\36860 Dated : 10 Apr 21

EXAMINATION: Nov-2020

RESULT TYPE: Regular

S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
1	1903783	SAKSHI MANOJ KUMAR	S	A	A	A+	A	B+	A+	A	A+	A+	8.19	21	Pass	
2	1903813	ADITYA BANOTRA RAJESH PRASAD	S	A	B+	A+	A	B+	B+	O	A+	A+	7.95	21	Pass	
3	1903814	ADITYA JAIN VIDHYA SAGAR JAIN	S	B+	A	O	A+	B+	B+	O	A+	A+	8.14	21	Pass	
4	1903816	ALISHA SANJEEV BANSAL	S	F(Ext)	F(Ext)	A+	B+	B	B+	A	A+	A+		15	Re-Appear	
5	1903818	ANAMIKA SANJIV NAYYAR	S	A	A+	A+	A+	A	B+	A+	A+	A+	8.43	21	Pass	
6	1903822	ARYAN GANGOTIA JUGAL KISHORE	S	B+	A	A+	A	B+	B+	B+	A+	A+	7.67	21	Pass	
7	1903825	BHAVANA MANMOHAN SINGH	S	B+	A+	A	A	B+	B+	A	A+	A+	7.86	21	Pass	
8	1903831	HARMANPREET KAUR AJMER SINGH	S	F(Ext)	A+	A	B	B+	B+	A	A+	A+		18	Re-Appear	
9	1903832	HARNOOR DEEP SINGH RAJINDER SINGH	S	F(Ext)	B+	A+	F(Ext)	F(Ext)	F(Ext)	A	A+	A+		9	Re-Appear	
10	1903834	ISHITA RAMAN KUMAR SHARMA	S	B+	A+	A+	A+	A	B+	A	A+	A+	8.19	21	Pass	
11	1903838	JATIN WADHWA VINOD KUMAR WADHWA	S	A	B+	A	A	B+	B+	A	A+	A+	7.71	21	Pass	
12	1903842	MAMTA GUPTA ANIL GUPTA	S	A	A+	A+	A	B+	B+	A	A+	A+	8.05	21	Pass	

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SCHEME: B.Tech. (Information Technology), Semester-3, 2018

INSTITUTE: DAVIET, Jalandhar

NOTIFICATION NO: PTU\Exam\Reg\36860 Dated : 10 Apr 21

EXAMINATION: Nov-2020

RESULT TYPE: Regular

S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
13	1903847	NANDINI A K CHOUDHARY	S	B+	A	A+	A	B+	B+	A	A+	A+	7.76	21	Pass	
14	1903850	PAVLEEN KAUR AJIT SINGH	S	F(Ext)	A	A+	B+	B+	B+	A	A+	A+		18	Re-Appear	
15	1903863	SHIVAM SHARMA BHARAT BHUSHAN SHARMA	S	B+	A	A+	B+	B+	B+	A+	A+	A+	7.71	21	Pass	

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SCHEME: B.Tech. (Information Technology), Semester-3, 2018

INSTITUTE: DAVIET, Jalandhar

NOTIFICATION NO: PTU\Exam\Reg\39713 Dated : 02 Jul 21

EXAMINATION: Nov-2020

RESULT TYPE: Regular

S.No.	Roll No	Name/Father Name	0	BTAM-304 -18 3	BTES-302- 18 3	BTES-303- 18 1	BTES301- 18 3	BTIT-301- 18 3	BTIT-302- 18 3	BTIT-303- 18 2	BTIT-304- 18 2	BTIT-305- 18 1	SGPA	Credits (Earned)	Result Status	Remarks
1	1903839	KESHAV TANDON VISHAL TANDON	S	Ab(Ext)	Ab(Ext)	A+	Ab(Ext)	Ab(Ext)	Ab(Ext)	B	B+	A+		6	Re-Appear	
2	1903860	SAIYAM AGGARWAL SANJEEV KUMAR	S	F(Ext)	Ab(Ext)	A+	Ab(Ext)	F(Ext)	F(Ext)	B+	A	A		6	Re-Appear	


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