INDEX

Criterion no: 2.5.2
Criterion Details: Evaluation Process and Reforms

Director
Tula's Institute, Dehradun

Key Indicator- 2.5. Evaluation Process and Reforms (30)

Metric No.		Weightage
2.5.2. QlM	***Mechanism to deal with internal/external examination related grievances is transparent, time- bound and efficient*** Upload a description not more than 500 words **File Description:** • Any additional information • Link for additional information	15

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2.5.2: Mechanism to deal with internal/external examination related grievances is transparent, time- bound and efficient

Examination grievances of students related to late application form filing, non-receipt of admit card of examinations or wrong entries in the admit card are communicated to University Examination cell with the assistance of the examination cell of the institution.

Grievances related to out of syllabus questions and question paper errors are taken up by the examination cell of the institution and a grievance is raised with the university examination grievance cell. The institution takes urgent initiative for resolving group grievances, if any, regarding university assessment and evaluation. Evaluation of Semester End Theory Exam answer sheets is conducted by the university as per marking scheme conveyed to the students. Subsequently, university informs the institution and students the results of the examinations. The results are displayed in the notice board of the institution and on the university website.

Any grievances related to the exam is sent to the university liaison officer who deals with the institute. The grievance is registered in logbook maintained at the university. Students can request for photocopy of the answer scripts. The photocopy of answer script shall be mailed to the student by university. After going through answer papers student can apply for revaluation. The institution ensures that examination related grievances are sorted out in a proper manner by coordinating with university. Students also have right to challenge the evaluation of answer books.

Evaluation of Internal Assessment answer sheets is based on marking scheme decided in advance by the respective department. Answer sheets are provided to students after completion of moderation and evaluation, for verification of marks. Any student grievances are addressed transparently by the teacher by re-evaluating jointly with the students on a time bound manner within one week. If the student is unsatisfied with the re-evaluation, she or he can approach the Head of Department or through grievance redressal portal on institution website. Further, student is also given option to approach the director, if the response is unsatisfactory.

Random quality checks of moderation and evaluation is conducted by the Head of the department to ensure consistency in the internal assessment process. All records and data bank of attendance is maintained in examination cell and course outcome wise details of student performance is also kept in respective course files for academic monitoring and audit.

Procedure for Submission of Application for Supply of Photocopy (ies) of Assessed Answer Book(s):

1. The student who has grievances fills the Application form and signs it.

2. The candidate shall submit their application forms along with the requisite fees to the Registrar of the institution who forwards the same to concerned person in the University.

For laboratory courses, student must submit lab record as per the timeline. Students performance is assessed for every experiment. The practical approach to real-time applications is tested by viva-voce. The marks scored by student for each experiment is recorded. Any grievances related to laboratory exams are raised to the examination cell.

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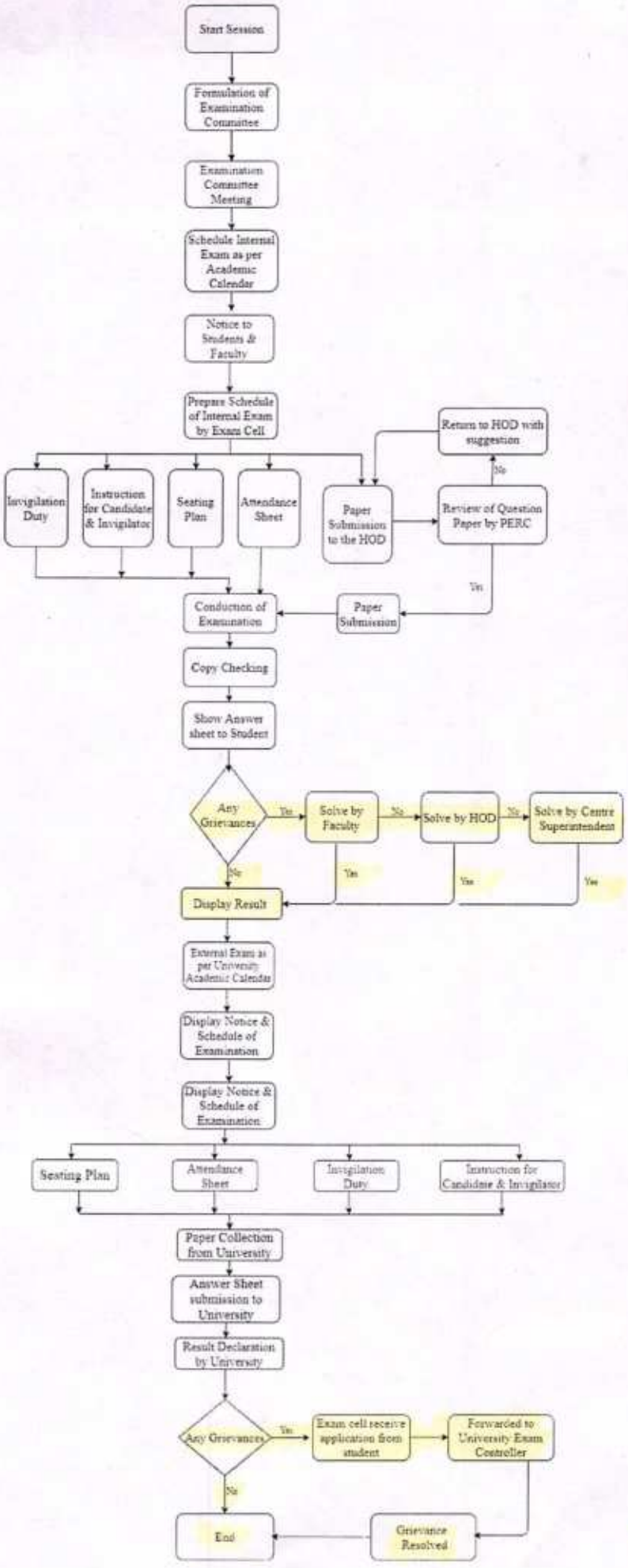

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Internal Examination Grievance Redressal Mechanism

(w.e.f Session 2015-16)

A student shall be entitled to re-evaluate his/her answer books on the basis of application. Re-evaluation is done in following conditions-

a. If Student not satisfied with the given marks.
b. If the student is absent but he appeared in examination.
c. If there is any mistake in the totalling of marks.
d. If any answer is unchecked by the evaluator.

The grievances related to internal examination is resolved as follows:

1. The evaluated answer sheet is shown to the student and if the student is not satisfied with the evaluation, he/she can raise the grievance to the respective faculty member. The faculty member will address his/her grievances and resolve it at their end.
2. If the student is not satisfied with the solution provided by the respective faculty member, he/she can raise the grievance to the concerned HOD and he/she will resolve it within his/her delegated domain of power.
3. In Case of any doubts after the solution provided by the HOD, the student may contact the examination cell.

Examination cell shall address all the applications pertaining to internal examination grievances against examination/evaluation within 10 days after the display of answer sheets to the concerned students. All applications should be addressed to centre superintendent.

Once received by the centre superintendent, the application of re-evaluation is forwarded to the respective head of the department. The concerned subject faculty member will re-evaluate the answer sheet in presence of centre superintendent. The re-evaluated answer sheet will be forwarded to the examination cell.
The examination cell will show the re-evaluated answer sheet to the concerned student.

Director
(Director)
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Dhoolkot, P.O. Selaqui, Chakrata Road
Dehradun - 248011 (U.K India)
www.tulas.edu.in
0135-2699300
0135-2699399

Director
Tula's Institute, Dehradun

TULA'S DEHRADUN Estd. 2006

Tula's Institute DEHRADUN the engineering and management College

ACADEMIC CALENDAR

Odd Semester **Session : 2021-2022**

S.No.	Particulars	Date	Responsibility
1.	**Time Table** (a) Display on Notice Boards (b) Distribution to concerned Teachers	26 September 2021 25 September 2021	Respective HoD
2.	Distribution of Provisional class lists to teachers	24 September 2021	Registrar
3.	**Commencement of Classes 2^{nd} ,3^{rd} , & 4^{th} Year**	28 September 2021	Concerned HoD
	Commencement of Classes - 1^{st} year (Including orientation/induction program)	01 October 2021	Concerned HoD
4.	Induction/ Orientation Ceremony	01-21 October'2021	Dr.Nidhi Goyal/Mr.Emanuel
5.	Tula's Sports Week/Festival*	22-23 October'2021	Sports Incharge
6.	Date up to which attendance is to be counted for I Sessional test	16 **November'2021**	Respective HoD
7.	Display of Debarred students list	17 **November'2021**	Respective HoD
8.	**1^{st} Test Series***	**18-21, November'2021**	Exam committee
9.	**Technical festival : Utkrisht'2021**	**03-04 December'2021**	Event Convener
10.	Date up to which attendance is to be counted for II Sessional test	**03 January'2022**	Respective HoD
11.	Display of Debarred students list	**04 January'2022**	Respective HoD
12.	**2^{nd} Test Series ***	**05 January – 08 January'2022**	Exam committee
13.	**Theory Examinations*** Collection of Admit Cards	To be announced later	Registrar/Exam committee

* **May be revised as per UTU/SDSUV/UBTER schedule.**

(Dean Academics)

TULA'S INSTITUTE Dehradun DHOOLKOT

Director
Tula's Institute, Dehradun

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Affiliated: Uttarakhand Technical University | Sri Dev Suman Uttarakhand University | Uttarakhand Board of Technical Education

ACADEMIC CALENDAR

Even Semester **Session: 2021-2022**

S.No.	Particulars		Date	Responsibility
1.	Distribution of Provisional class lists to teachers		13 February 2022	Registrar
2.	Time Table Display on Notice Boards Distribution to concerned Teachers		15 February 2022 15 February 2022	Respective HoD
3.	Commencement of Classes 2nd ,3rd , & 4th Year UTU & UBTER Affiliated Courses		16 February' 2022	Concerned HoD
	Commencement of Classes – All Years SDSUV		21 February' 2022	Concerned HoD
	Commencement of Classes - 1st year UTU		21 March' 2022	Concerned HoD
4.	Technical festival : Utkrisht'2022		08-09 April'2022	Utkrisht In-charge
5.	1st Continuous Internal Evaluation*	All Year UTU & UBTER Students	27 April-30 April' 2022	Exam Committee
		All Years SDSUV	01 June-04 June'2022	
6.	Date up to which attendance is to be counted for II CIE	All Year UTU & UBTER Students	30 May'2022	Respective HoD
		All Years SDSUV	04 July'2022	
7.	2nd Continuous Internal Evaluation**	All Year UTU & UBTER Students	26 May - 28 May'2022	Exam committee
		All Years SDSUV	06 July - 09 July'2022	Exam committee
8.	Theory Examinations* Collection of Admit Cards		To be announced later	Registrar/Exam committee

***May be revised as per UTU/SDSUV/UBTER schedule.**

Director
Tula's Institute, Dehradun

Dr. Nishant Saxena
(Dean Academics)

Vision:
- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:
- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.
- Establish as technology driven teaching learning institution.
- Provide world class platform for research and innovation.
- Inculcate social, environmental, heritage values.

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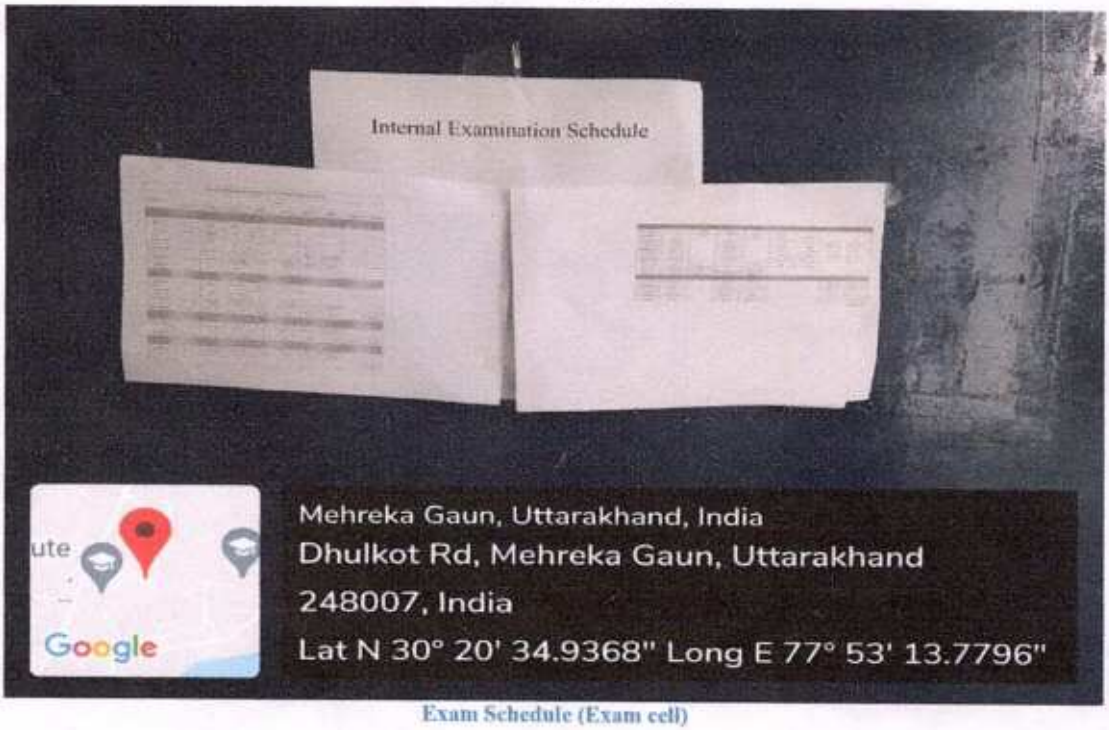
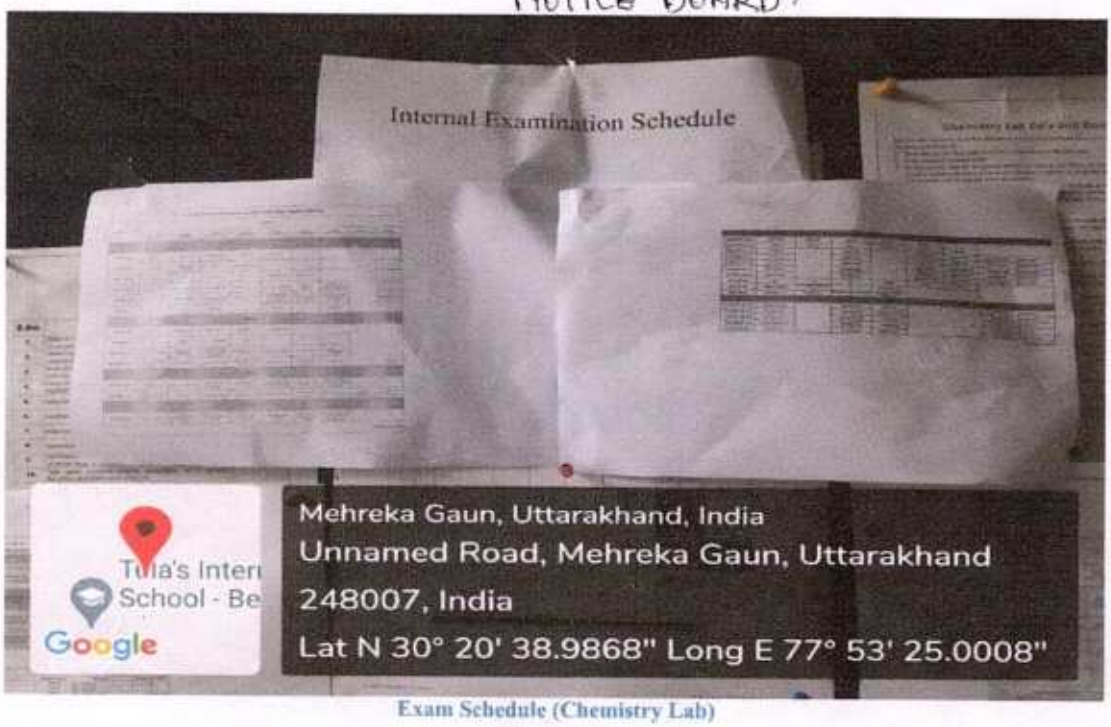
NOTICE BOARD



Exam Schedule (Exam cell)

NOTICE BOARD.



Exam Schedule (Chemistry Lab)

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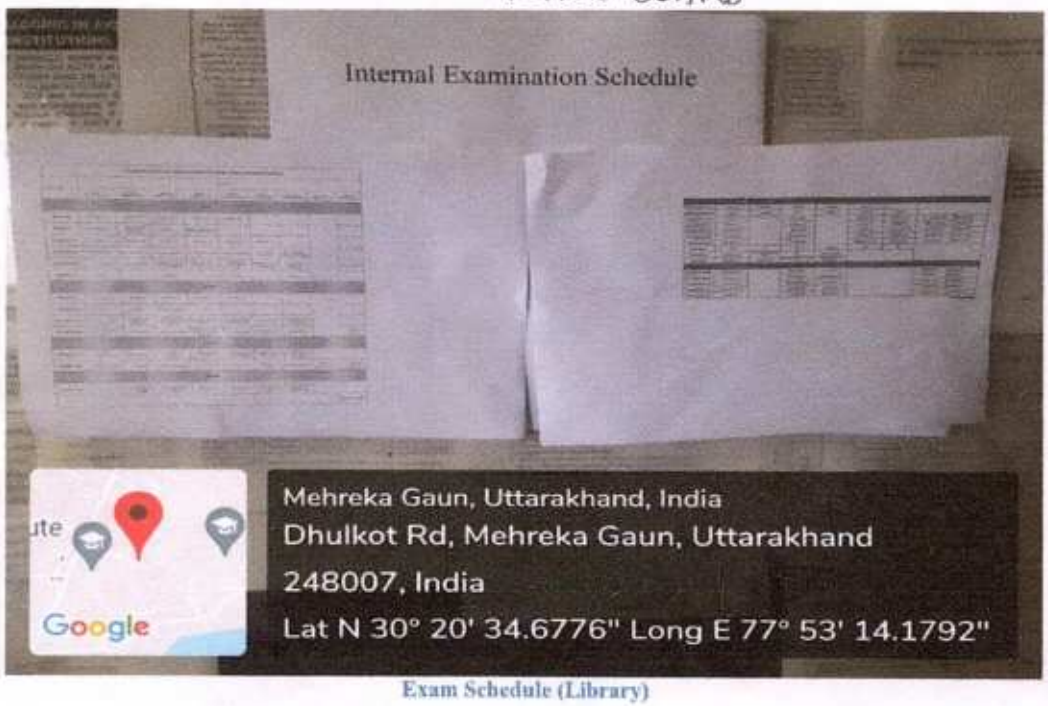
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Centre Superintendent
Tula's Institute
Dhulkot, Dehradun

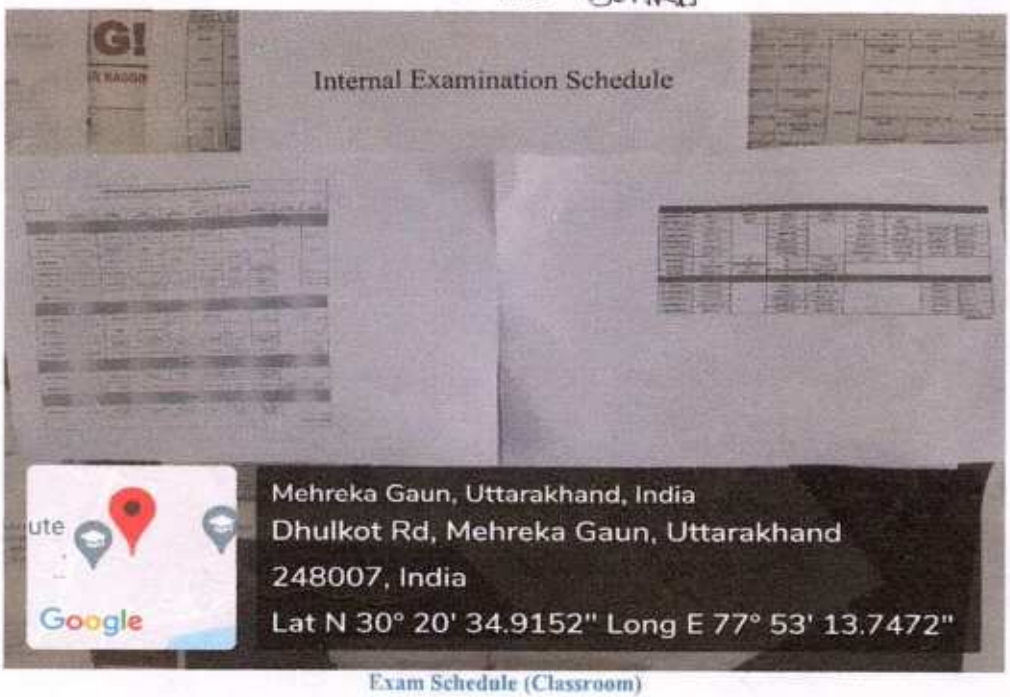
Director
Tula's Institute, Dehradun

NOTICE BOARD



Exam Schedule (Library)

NOTICE BOARD



Exam Schedule (Classroom)

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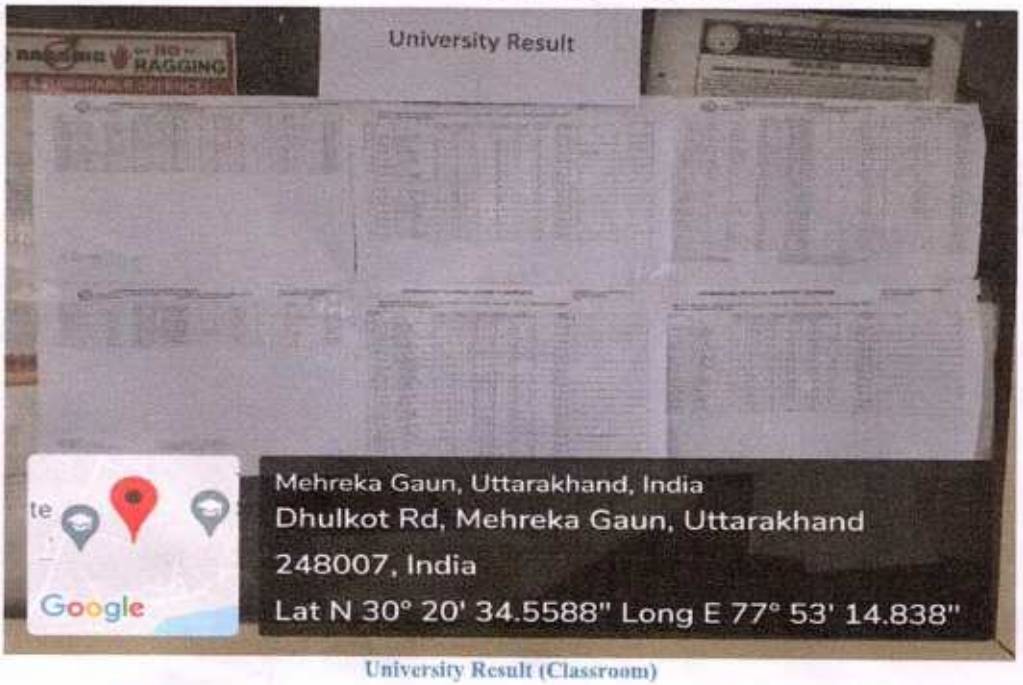
Tula's Institute, Dehradun

Centre Superintendent
Tula's Institute
Dhoolkot, Dehradun

Director
Tula's Institute, Dehradun

NOTICE BOARD



University Result (Classroom)

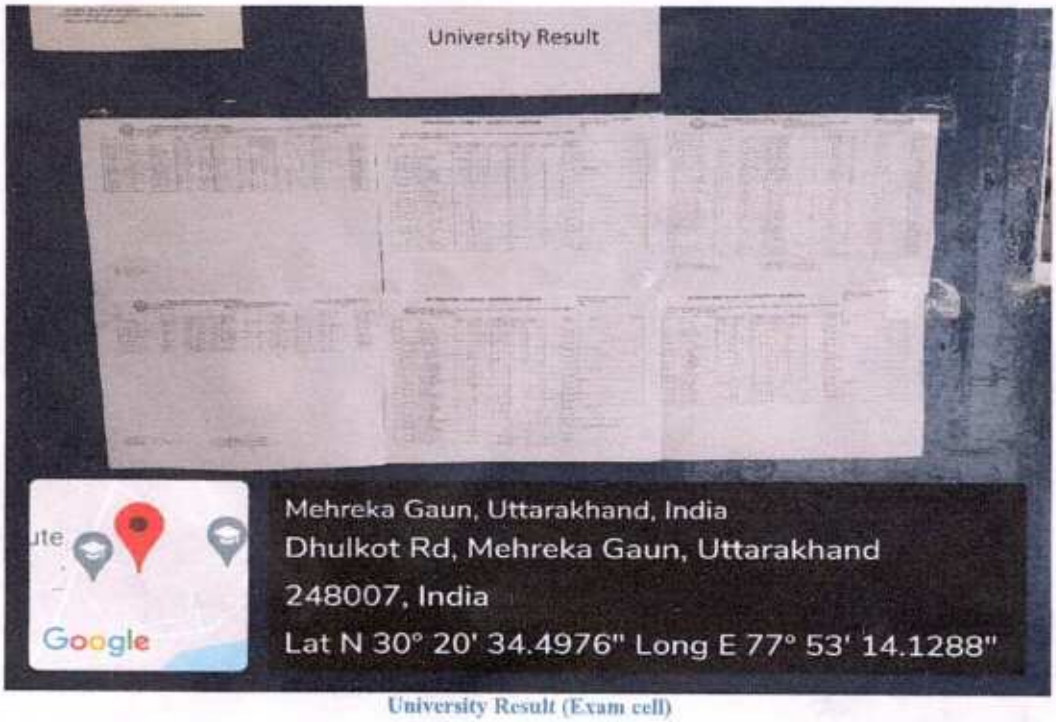
NOTICE BOARD

University Result (Chemistry Lab)

Director
Tula's Institute, Dehradun

Centre Superintendent
Tula's Institute
Dhulkot, Dehradun

Director
Tula's Institute, Dehradun



University Result (Exam cell)

University Result (Library)

Director
Tula's Institute, Dehradun

Superintendent
Tula's Institute
Dhulkot, Dehradun

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Hey! I am Niaa... Your Admission Assistant.

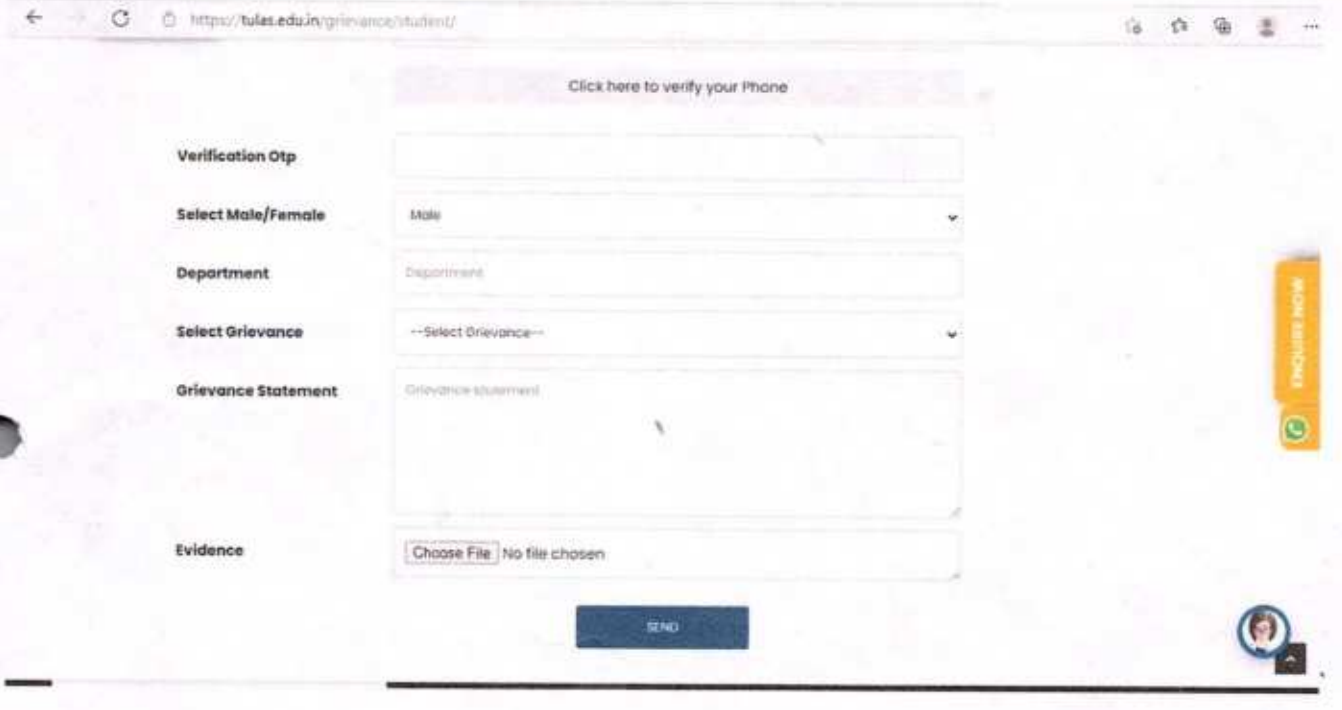
Director
Tula's Institute, Dehradun

Detail Grievance

Name

Email

Phone Number



Director
Tula's Institute, Dehradun

Superintendent
Tula's Institute
Dhoolkot, Dehradun

Director
Tula's Institute, Dehradun

To,
Head of Dept
Electrical & Electronics
Tula's Institute

Subject:- Regarding the rechecking of Internal exam copy of Electronic devices

Sir,

This is to inform you that I am not satisfied with the marks of subject Electronic devices (BECT-304). I request you to kindly make the provision to recheck the internal copy of this subject

Thanking you.

Manish Yadav
B.Tech. EEE 2nd yr.
2001201080001

Forwarded to Mr. Mohit Kumar

HoD
Department of E&C Engineering
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Ans Booklet No: 2009149

Tula's Institute, Dehradun
Sessional Test : 20..21..-20..22

Roll No	2001201080011
Name of Student	Manish Yadav
Course	B.tech
Branch	EEE
Semester	3rd
Subject Name With Code	Electronic device(BECT-304
Time	2:30 to 4:00
Date	2022/01/06
Room No	C-403
Signature of Candidate	Manish
Name & Signature of Invigilator	

Candidate Roll No.

2	0	0	1	2	0	1	0	8	0	0	1

Date	8/1/22
Marks Obtained	20+4 Merit
Max. Marks	30
Name of Evaluator	Dr. D Pant
Signature of Evaluator	

GENERAL INSTRUCTIONS

1. Do not write any matter except your Examination Roll No. on your question paper.
2. Always Keep the student I- Card with you and show it to the supervisor staff on duty as and when required / demanded.
3. The candidates should not talk with any examinee and should not disturb smooth functioning of the Examination [illegible] duct of examination.
4. The Examinee should check their pockets, desks, geometric boxes etc. immediately after they occupy their seats. If any paper written on otherwise found, it should be handed-over to the invigilator on duty.
5. No blank pages be left in between answer to various questions.
7. No candidate shall be allowed to carry inside the examination hall, any textual material, printed or written, bits of paper or any other material of like nature. [illegible] phones, pagers and articles like nature shall not be allowed in the examination hall (scientific/simple calculators are however permissible in the [illegible]mination hall, if prescribed.)
9. Do not write anything inside the answer book before distribution of question paper.

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Tula's Institute, Dehradun

Part A: Attempt all.

a) Rectifier is used For converting
=) Ac into pulsating Dc.

b) The efficiency of half wave Rectifie is
=) 40%.

c) clipper and clampers are wave shaping circuits
=) True

d) BJT is a voltage controlled device
=) False

e) The size of collector region is large as compared to emitter region in BJT
=) True

F) Doping of collector region is a higher as compared to emitte region
=) False

6

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Part c : Attempt all.

d) Write the relationship between α, β and γ with their definitions

=) $\alpha = \frac{\Delta I_C}{\Delta I_E}$

$\beta = \frac{\Delta I_C}{\Delta I_B}$

$\gamma = \frac{\Delta I_E}{\Delta I_B}$

α = It is ratio of collector current to emitter current

β = It is ratio of collector curren to base current

γ = It is ratio of emitter curre to base current

$\Delta I_E = \Delta I_C + \Delta I_B$

Dividing ΔI_C on both side

$\frac{\Delta I_E}{\Delta I_C} = \frac{\Delta I_C}{\Delta I_C} + \frac{\Delta I_B}{\Delta I_C}$

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$$\text{or,} \quad \frac{1}{\alpha} = \frac{1}{\cdot} + \frac{1}{\beta}$$

$$\text{or,} \quad \frac{1}{\beta} = \frac{1}{\alpha} - \frac{1}{\cdot}$$

$$\text{or,} \quad \frac{1}{\beta} = \frac{1-\alpha}{\alpha}$$

$$\boxed{\beta = \frac{\alpha}{1-\alpha}}$$

$$\Delta I_E = \Delta I_C + \Delta I_B$$

Dividing ΔI_B on both side

$$\frac{\Delta I_E}{\Delta I_B} = \frac{\Delta I_C}{\Delta I_B} + \frac{\Delta I_B}{\Delta I_B}$$

$$\text{or,} \quad \gamma = \beta + 1$$

$$\boxed{\gamma = \beta + 1}$$

$$\gamma = \frac{\alpha}{1-\alpha} + 1$$

$$\gamma = \frac{\alpha + 1 - \alpha}{1-\alpha}$$

$$\boxed{\gamma = \frac{1}{1-\alpha}}$$

4

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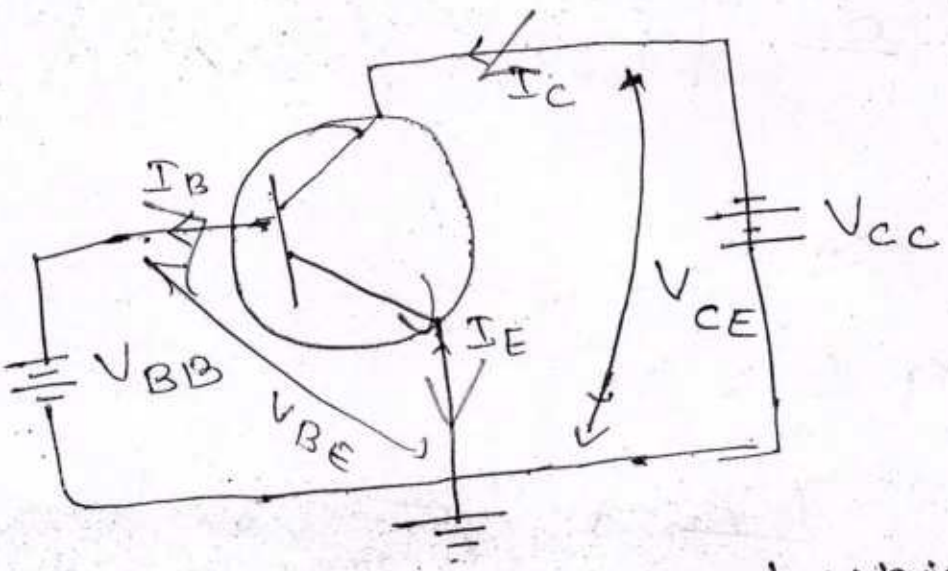
F) Explain the CE configuration of transistor with I/P characteris

=) In CE configuration, emitte is grounded as shown in figure below.



I_B is the base current which is in input terminal with voltage V_{BB} and I_C is collector curre which in output terminal with voltage V_{CE} and I_E is emitt. curren which is in output term

$\therefore I_E = I_B + I_C$

current amplification (β): It is the ratio of Input current to input voltage with output

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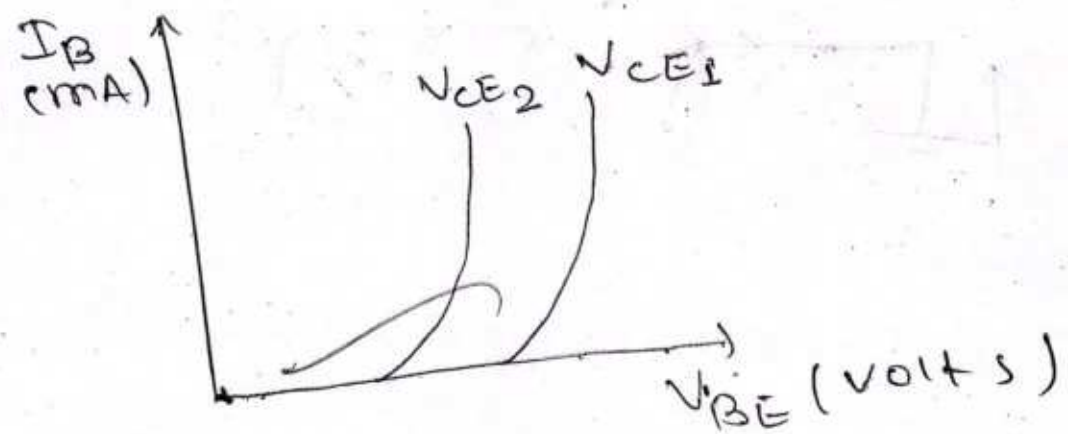
Input characteristic

The input characteristic of CE configuration is drawn between I_B and V_{BE} with constant output voltage V_{CE}



Since: $V_{CE_1} > V_{CE_2}$

Small change in ~~voltage~~ voltage, the input current (I_B) is increase rapidly with constant output voltage (V_{CE})

(3)

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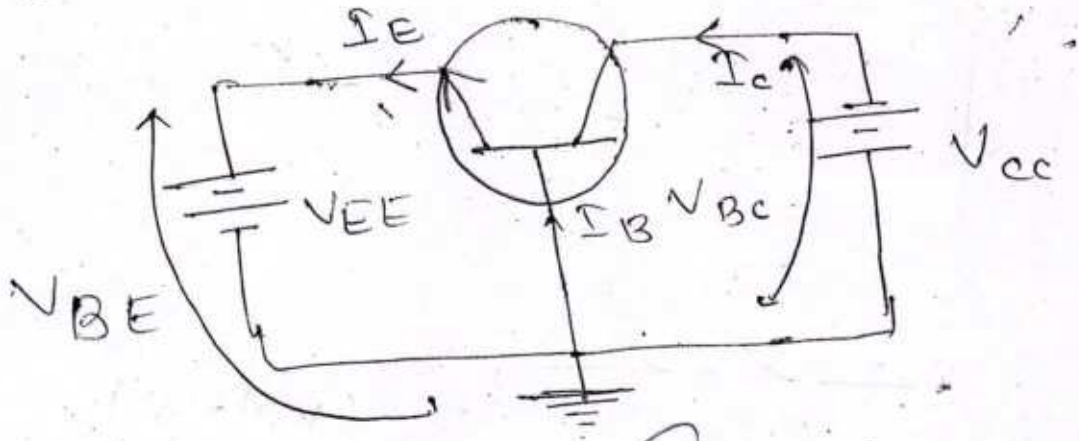
b) Explain the CB configuration of transistor with I/p character

=) In CB configuration emitter is grounded as shown in figure



V_{BE} is input voltage in the CB configuration and V_{BC} is output voltage across on it. Total current across the junction is

$$I_E = I_B + I_C$$

emitter and collector are connected with base at same junction that why it is called CB configuration.

current amplification (α) = It is ratio of output current (I_C) and input current (I_E).

$\alpha = I_C$

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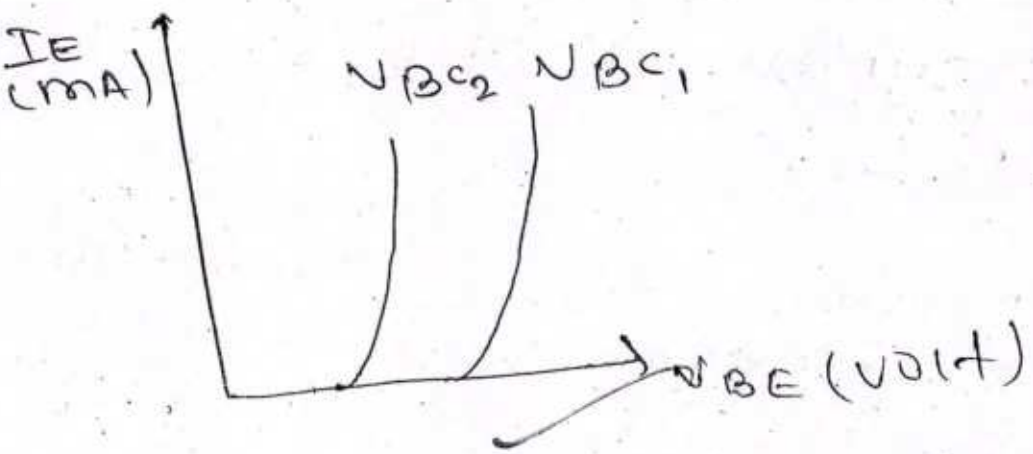
Input characteristic

The input characteristic of CB configuration is drawn between I_E and V_{BE} with output voltage (V_{BC}) is constant.



Since $V_{BC_1} > V_{BC_2}$

small change in input voltage (V_B) input current is rapidly increas With constant output voltage (V_{BC}).

3

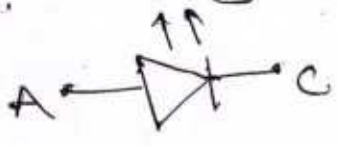
Director
Tula's Institute, Dehradun

e) Explain LED with applications in details.

⇒ LED is light emiting diode.

LED is special type of diode which give invisible all visible li when connected in Forward bias

The symbol of LED is



LED converted energy into light energy.

GAAS are used material in LED

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Application OF LED

- It is used in traffic light, Signal
- It is used in mobile - phone to display the message.
- It is used in ~~motor~~ bike.
- It is used in ~~laboratories~~ For the experiment perform and ~~scientific~~ research.
- It is used in ~~bulb~~ in home and industries.

(2+2 Marks)

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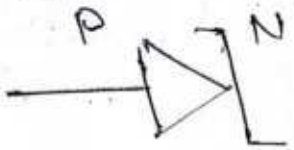
d) Explain the working of zener diode. Hold it's different from normal PN Junction diode.

=) Zener diode is the process in which electron moves across the barrier from valence band of p-type material to conduction band of N-type material. This is observed having a zener breakdown voltage (V_z) of 5 to 8 V. zener diode occur in both forward and reverse biased.

The symbol of zener diod is



PN Junction diode is simple diode in which two terminal p and N-type are present. PN Junction diode occur in forward but zener diode also has two terminal but it occur in both forward and reverse bias.

Director
Tula's Institute, Dehradun

Date- 20-01-22

To

The Controller of Examination

Tula's Institute Dhoolkot,

Dhulkot road, Dehradun Uttarakhand 248197

Subject:- Regarding re evaluation of answer sheet of 1st Internal Examination

Sir,

It has been observed that after reevaluation the answer sheet of Manish yadav (200120208001) EEE 2nd Year of Electronics Devices (BECT-304), the marks has been improved by 4. He scored 20 marks previously which have to be upgraded 24 marks.

Kindly upgrade the marks

Regards

(HoD)

Department of ECE & EEE

Department of E&C Engineering
Tula's Institute, Dehradun

20/1/22

Director
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