



**Khalsa College of Engineering & Technology**

**ਖ਼ਾਲਸਾ ਕਾਲਜ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ**

*Governed by Khalsa College Charitable Society, Amritsar, Estd. 1892*  
Approved by AICTE, New Delhi & Affiliated to IKG Punjab Technical University, Jalandhar (Govt. of Punjab)

**Accredited By NAAC Grade "A"**



### **SUPPORTING DOCUMENT FOR 1.1.1**

**The institution ensures effective curriculum delivery through a well planned and documented process**



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## University Academic Calendars

Ref. No. IKGPTU/DA/ 2196

Dated 25/10/2023

## NOTICE

### **Subject: Regarding Amendment in the Academic Calendar for Session 2023-24.**

In reference to letter issued by the AICTE, New Delhi vide Ref. No. F.No.: ADV/RB/Academic Calendar/2023-24 dated 17-10-2023 regarding the extension of last date of admission for session 2023-24 upto 30-10-2023 (**copy enclosed**), the following amendments have been made in the Academic Calendar for session 2023-24 issued by the University vide Ref. No. IKGPTU/DA/1722 dated 26-06-2023 (**copy enclosed**):-

1. The End Semester Examinations for 1<sup>st</sup> Semester & 3<sup>rd</sup> Semester will commence from 8<sup>th</sup> December, 2023 for all UG/PG Courses. Rest of the Academic Calendar issued vide No. IKGPTU/DA/1722 dated 26-06-2023 will remain the same.
2. For 1<sup>st</sup> and 3<sup>rd</sup> semesters, the number of days falling short of 90 (100 for Pharmacy Courses) should be compensated by engaging classes till 01-12-2023. Further extra classes may be engaged wherever needed by making Saturdays / Sundays or other holidays working.

This notice has been issued with the approval of Hon'ble Vice Chancellor vide E-office File No. I/395/2023-ACAD (Computer No. 98864).

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


### **Copy to :-**

1. Secretary to Vice Chancellor –for the kind information of Hon'ble Vice Chancellor
2. Registrar
3. Director/Principal- all affiliated/autonomous colleges & Campuses of IKGPTU, Kapurthala
4. Controller of Examination, IKGPTU, Kapurthala
5. Dy. Registrar (Academics)
6. Incharge (ITS)- Kindly upload this notice on University Website
7. File

*"Propelling Punjab to a Prosperous Knowledge Society"*

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

Jalandhar-Kapurthala Highway, Kapurthala-144 603, Punjab (INDIA)

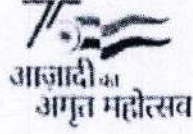
Phone : +91-1822-282562 **Email** : deanacad@ptu.ac.in **Website** : www.ptu.ac.in



प्रो. राजीव कुमार  
सदस्य सचिव  
Prof. Rajive Kumar  
Member Secretary



सत्यमेव जयते



अखिल भारतीय तकनीकी शिक्षा परिषद्  
(भारत सरकार का एक सांविधिक निकाय)  
शिक्षा मंत्रालय, भारत सरकार  
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070  
दूरध्वनि : 011-29581399  
ई-मेल : ms@aicte-india.org

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(A STATUTORY BODY OF THE GOVT. OF INDIA)  
Ministry of Education, Govt. of India  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070  
Phone : 011-29581399  
E-mail : ms@aicte-india.org

F. No.: ADV/RB/Academic Calendar/2023-24

Dated:17-10-2023

To,

All the Vice Chancellors of Affiliating Universities/Directorate of Technical Education (DTE) of all State Govt./UTs

Sub: - Revised Academic Calendar 2023-24 as approved by Hon'ble Supreme Court.

Dear Sir/Madam,

In compliance of Hon'ble Supreme Court order dated 13.10.2023, AICTE has revised the academic calendar for the year 2023-24 for admissions up to 30<sup>th</sup> October 2023 and same is notified on Council website [www.aicte-india.org](http://www.aicte-india.org) (Announcements).

AICTE has also given approval to some of the institutions for running/offering program/course(s) at Diploma, Degree and Post graduate level for Working Professionals in flexible timings / mode. List of the approved institutions (excluding PGDM/PGCM institutions) offering such program/course(s) is available on AICTE website [www.aicte-india.org](http://www.aicte-india.org).

In light of the above, it is requested that necessary directions may be issued to all the Institutions/Colleges under your administrative control to follow the revised Academic Calendar 2023-24 (Copy Enclosed) and regarding admissions of working professionals in the AICTE approved institutions during current academic year 2023-24 preferably before 30th October, 2023.

Regards,

(Prof. Rajive Kumar)  
Member Secretary

Copy to:

1. PS to Chairman/Vice-Chairman/Member Secretary
2. Adviser-II, E-gov for necessary action
3. Office Copy

# 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. JKG/PTU/DA/1722

Dated 26/6/2023

## Revised Academic Calendar for Session 2023-24

In accordance with the letter being issued by AICTE, New Delhi (vide letter No.AICTE/Adv./RB/Academic Calendar/23-24 dated 25.05.2023, copy enclosed), regarding the commencement of the Academic Session for the 2023-24 Batch, the Revised Academic Calendar for All Batches is as under:

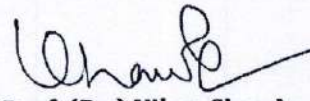
Odd Semester		
Sr. No.	Description	Period
1.	Commencement of Session	1 <sup>st</sup> August 2023
2.	Orientation Program for 2023 Batch#	1 <sup>st</sup> August 2023 to 31 <sup>st</sup> August 2023
3.	First Mid Semester Examination	11 <sup>th</sup> September 2023 to 15 <sup>th</sup> September 2023
4.	Second Mid Semester Examination	30 <sup>th</sup> October 2023 to 3 <sup>rd</sup> November 2023
5.	Preparatory Holidays	6 <sup>th</sup> November 2023 to 12 <sup>th</sup> November 2023
6.	End Semester Examination*	13 <sup>th</sup> November 2023 onwards
7.	Winter Vacations**	25 <sup>th</sup> December 2023 to 1 <sup>st</sup> January 2024

# First 14 Days Full day and there after along with classes.  
\* End Semester Practical Examination will be notified separately by the Examination Branch of the University (To be completed before last date of theory examination).  
\*\* This will be applicable for faculty and students.

Even Semester		
Sr. No.	Description	Period
1.	Commencement of Session	2 <sup>nd</sup> January 2024
2.	First Mid Semester Examination	19 <sup>th</sup> February 2024 to 24 <sup>th</sup> February 2024
3.	Second Mid Semester Examination	8 <sup>th</sup> April 2024 to 12 <sup>th</sup> April 2024
4.	Preparatory Holidays	18 <sup>th</sup> April 2024 to 22 <sup>nd</sup> April 2024
5.	End Semester Examination*	23 <sup>rd</sup> April 2024 onwards
6.	Summer Vacations#	1 <sup>st</sup> June 2024 to 13 <sup>th</sup> July 2024

\* End Semester Practical Examination will be conducted will be notified separately by the Examination Branch of the University. (To be completed before 8<sup>th</sup> June 2024)  
Note: - End Semester Summer Training from 1<sup>st</sup> June 2024 to 13<sup>th</sup> July 2024  
# The Principal / Director of concerned Institute / Campus / College shall manage the vacation schedule for the Faculty and Students as per their requirement.

- Next Academic Session 2024-2025 shall commence from 15<sup>th</sup> July 2024.
- The number of days falling short of 90 (100 for Pharmacy Courses) should be compensated by making Saturdays or other holidays working by the institutions.

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

"Propelling Punjab to a Prosperous Knowledge Society"

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सदस्य सचिव  
Prof. Rajive Kumar  
Member Secretary



सत्यमेव जयते



आज़ादी का  
अमृत महोत्सव

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Phone : 011-29581399  
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No. AICTE/Adv/RB/Academic Calendar /23-24

Dated: 25.05.2023

To,

All Vice Chancellor's (Technical and Deemed to be- Universities / Director's (Technical Education) / Director's (Stand-alone) Institutions

Subject: - Academic Calendar issued by AICTE for the Academic Year 2023- 24-reg.

Sir/Madam,

AICTE issued the Academic Calendar for the academic year 2023-24 for Technical Institutions and for PGDM/PGCM Institutions in which the last date of admission is 15.09.2023.

Here, it is clarified that this is the last date of admission and State – Governments / Institutions can finish the admission process even before this date.

Also, for granting/ refusing AICTE Approval to its institutions (new/ old), the date is 10.06.2023. Hence, Institutions/ State Governments / Deemed to be – Universities are recommended to finish their admission process latest by 31.07.2023, so that classes can be started from 01.08.2023.

The CBSE & State Boards have already announced 12<sup>th</sup> results and JEE/ NEET exams have already been conducted.

In view of the above, early admission by the state Government and Institutions, will further help in streamlining the academic year 2023-24.

Further, all the State Governments/ Institutions are also requested to transparently display their last date of admission on their website/ newspaper to bring it to the notice of all stakeholders.

(PROF. RAJIVE KUMAR)

Ref. No. 1K4PTU/DA/1122

Dated 11/05/2023

**Academic Calendar for 2023 Batches  
(Including LEET students admitted in 2023)  
For the Session 2023-24**

Odd Semester		
Sr. No.	Description	Period
1.	Orientation Program #	September 2023 (4 <sup>th</sup> to 30 <sup>th</sup> )
2.	Commencement of Session	September 18 <sup>th</sup> , 2023
3.	First Mid Semester Examination	November 2023 (6 <sup>th</sup> to 10 <sup>th</sup> )
4.	Second Mid Semester Examination	December 2023 (18 <sup>th</sup> to 22 <sup>nd</sup> )
5.	Preparatory Holidays	December 2023 (25 <sup>th</sup> ) to January 2024 (1 <sup>st</sup> )
6.	End Semester Examination *	January 2024 (2 <sup>nd</sup> to 15 <sup>th</sup> )
7.	Winter Vacations **	January 2024 (16 <sup>th</sup> to 21 <sup>st</sup> )

\* End Semester Practical Examination will be notified separately by the Examination Branch of the University. (To be completed before 15<sup>th</sup> January, 2024)  
\*\* Winter vacation will be only for students.

Even Semester		
Sr. No.	Description	Period
1.	Commencement of Session	January 2024(22 <sup>nd</sup> )
2.	First Mid Semester Examination	February, 2024 (26 <sup>th</sup> ) to March (2 <sup>nd</sup> )
3.	Second Mid Semester Examination	April, 2024 (15 <sup>th</sup> to 20 <sup>th</sup> )
4.	Preparatory Holidays	May, 2024 (15 <sup>th</sup> to 21 <sup>st</sup> )
5.	End Semester Examination *	May, 2024 (22 <sup>nd</sup> ) to June, 2024(8 <sup>th</sup> )
6.	Summer Vacations **	June, 2024 (9 <sup>th</sup> ) to July, 2024 (13 <sup>th</sup> )

\* End Semester Practical Examination will be conducted will be notified separately by the Examination Branch of the University. (To be completed before 08<sup>th</sup> June, 2024)  
**Note: - End Semester Summer Training will be from 1<sup>st</sup> June, 2024 to 13<sup>th</sup> July, 2024**

# Orientation program- 4<sup>th</sup> September, 2023 - 17 September, 2023 Full Day  
18<sup>th</sup> September 2023 - 30 September, 2023 (Alongwith classes)

*(Signature)*

Contd.....2

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## Office of Dean (Academics)



# PTU

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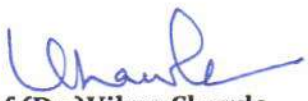
Ref. No. 1K9PTU/DA/1122



Dated 10/05/2023

-2-

\*\* The Principal / Director of concerned institute /Campus /College shall manage the vacations schedule for the Faculty and Students as per their requirements.

1. Next Academic Session 2023-2024 shall commence from **17.07.2024**.
2. The Academic session for students of LEET 2022 batch will start after the examinations for their 4<sup>th</sup> semester (April / May session 2023-2024). The colleges / institutions will provide extra classes to the students, so that their syllabus be covered and henceforth their classes will be functioning along with 2022 Batch (Regular Students).
3. All the Institute may follow a 6-day week pattern for the academic session 2023-24 and 2024-2025 to compensate the loss for this batch of students, if required.
4. The number of days falling short of 90 (100 for Pharmacy Courses) should be compensated by making Saturdays or other holidays working by the institutions.

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

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## College Academic Calendars



# Khalsa College of Engineering & Technology

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## Academic Calendar Academic Year 2023-2024

S.No.	Event	Period	Duration
1	Commencement of Even Semester	8Jan 2024	
2	I Spell of Instructions	8 Jan 2024 to 20Feb 2024	6 weeks, 2 day
3	I Mid Semester Test	21Feb 2024 to 23Feb 2024	3 days
4	II Spell of Instructions	26Feb 2024to 9Apr 2024	6 weeks, 2 days
5	II Mid Semester Test	10Apr 2024 to 12Apr 2024	3 days
6	Preparation/Internal Practical Exam	15Apr 2024 to 19Apr 2024	5 days
7	End Semester Examinations	23 Apr 2024 to 31May 2024	6 weeks

### Activities at the College level for Session (Jan- May 2024)

S. No	Activity Title	Dates
1	CATC Camp by NCC Cell	15 Jan - 25 Jan 2024
2	National Startup Day	23rd January 2024
3	Celebration of Republic Day by NCC/NSS Cell	24 Jan 2024
4	7 <sup>th</sup> Khalsa College International Folk Festival	2 February 2024
5	Seminar on Banking Exam Preparation by T&P Cell	6 Feb 2024
6	Organizing Innovation & Entrepreneurship Outreach Program in Schools/Community by IIC Cell	12-Feb-2024
7	Seminar on GATE Exam Preparation by T&P Cell	27 Feb 2024
8	National Science Day by ISTE/IIC Cell	28 February 2024
9	Organize an Inter/Intra Institutional Innovation competition / Challenge/ Hackathon and Reward Best Innovations by IIC Cell	5 March 2024
10	Sports Meets by Sports Cell	7 March 2024
11	International Women Day by woman Cell	08-Mar-24
12	Alumni Meet by Alumni Cell	21 March 2024
13	Tech Urja	20-21March 2024
14	International conference	28-29 March 2024
15	Session on "How to plan for Start-up and legal & Ethical Steps" by IIC Cell	30 March 2024
16	Kargil Vijay Diwas by NCC Cell	26 July 2024
17	Cricket Tournament by Sports Cell	5-6 April 2024
18	Volleyball Tournament by Sports Cell	5-6 April 2024
19	Workshop on Intellectual Property Rights (IPRs) and IP management for start-upby IIC Cell	2 April 2024

  
Dean Academics

  
Director



**Academic Calendar**  
**Academic Year 2023-2024**

S.No.	Event	Period	Duration
			<b>1 Aug 2023</b>
1	<b>Commencement of odd Semester</b>		
2	I Spell of Instructions	1 Aug 2023 to 12 Sept 2023	6 weeks, 1 day
3	I Mid Semester Test	13 Sept 2023 to 15 Aug 2023	3 days
4	II Spell of Instructions	18 Sept 2023 to 31 Oct 2023	6 weeks, 2 days
5	II Mid Semester Test	1 Nov 2023 to 3 Nov 2023	3 days
6	Preparation/Internal Practical Exam	6 Nov 2023 to 10 Nov 2023	5 days
7	End Semester Examinations	13 Nov 2023 to 22 Dec 2023	6 weeks
			<b>2 Jan 2024</b>
8	<b>Commencement of Even semester</b>		

**Activities at the College level for Session (July- Dec 2023)**

S. No	Activity Title	Dates
1	Tree Plantation Drive by NSS Cell	13 July 2023
2	National Online Quiz (Insolvency and Bankruptcy) by HV cell	25 July 2023
3	Tree Plantation Drive by NSS Cell	4 Aug 2023
4	Teez Celebration by Cultural Cell	4 Aug 2023
5	International Youth Day by NCC Cell	11 August 2023
6	Independence Day by NCC Cell	15 Aug 2023
7	Anti Ragging Day by HV Cell	18 Aug 2023
8	Ganesh Chaturthi by Cultural Cell	12 Sept 2023
9	Tree Plantation Drive by NSS Cell	29 Sept 2023
10	International Day of Non-Violence by HV Cell	29 Sept 2023
11	Cleanliness Drive by NSS Cell	1 Oct 2023
12	Guest Lecture by Dr. Kailash Srivastava by ISTE	3 Oct 2023
13	Ardass Diwas by Cultural Cell	6 Oct 2023
14	Indian Air force Day by NCC Cell	9 Oct 2023
15	Blood Donation Camp by NSS Cell	11 Oct 2023
16	Amrit Kalash Yatra by HV Cell	11 Oct 2023
17	Institute Innovation Day by IIC Cell	15 Oct 2023
18	Fresher Party by Cultural Cell	17 Oct 2023
19	IKGPTU Youth Fest	25-27 Oct 2023
20	Khalsa Youth Fest	31 Oct & 1 Nov 2023
21	National Unity Day by NCC Cell & ISTE	31 Oct 2023
	National Entrepreneurship Day by IIC Cell	9 Nov 2023
	National Education Day by IIC Cell	11 Nov 2023
	National Pollution Control Day by IIC Cell	2 Dec 2023
	National Energy Conservation Day by IIC Cell	14 Dec 2023

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Director

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**Department of Computer Science & Engineering - Academic Planner for odd Semester (Aug 2023-Nov 2023)**

Aug-23	Day	Details	Day Order	Working Days	Sep-23	Day	Details	Day Order	Working Days	Oct-23	Day	Details	Day Order	Working Days	Nov-23	Day	Details	Day Order	Working Days
1	Tue	Commence of Classes	I	1	1	Fri													
2	Wed		II	2	2	Sat													
3	Thu		III	3	3	Sun	Holiday												
4	Fri		IV	4	4	Mon	Holiday												
5	Sat	Holiday			5	Tue	Teachers Day Celebration	I	2	4	Wed		I	1	3	Fri	MST-II	II	2
6	Sun	Holiday			6	Wed		II	3	5	Thu	Technical Seminar	III	3	5	Sun	Holiday	III	3
7	Mon		I	5	7	Thu		III	4	6	Fri		IV	4	6	Mon	Result Analysis Report after MST-2		
8	Tue	Departmental Meeting	II	6	8	Fri	Departmental Meeting	IV	5	7	Sat				7	Tue	Letter to parents /Syllabus revision		
9	Wed		III	7	9	Sun	Holiday	V	6	8	Sun				8	Wed	Preparatory Holidays		
10	Thu		IV	8	10	Mon	Holiday			9	Mon		I	5	9	Thu	Preparatory Holidays		
11	Fri	Guest Lecture	V	9	11	Mon	MST-1			10	Tue		II	6	10	Fri	Preparatory Holidays		
12	Sat	Holiday			12	Tue	MST-1	I	7	11	Wed	Industrial Visit	III	7	11	Sat	Holiday		
13	Sun	Holiday			13	Wed	MST-1	II	8	12	Thu		IV	8	12	Sun	Dussehra/Holiday		
14	Mon		I	10	14	Thu	MST-1	III	9	13	Fri	International E Waste Day	V	9	13	Mon	Gowarshan Puja		
15	Tue				15	Fri	Engineers Day	IV	10	14	Sat				14	Tue	End Sem Examination		
16	Wed		II	11	16	Mon		V	11	15	Sun				15	Wed			
17	Thu		III	12	17	Tue				16	Mon		I	10	16	Thu			
18	Fri		IV	13	18	Mon				17	Tue	Technical Quiz	II	11	17	Fri			
19	Sat	Holiday			19	Tue	Technical Seminar	I	12	18	Wed		III	12	18	Sat	Holiday		
20	Sun	Holiday			20	Wed		II	13	19	Thu		IV	13	19	Sun	Holiday		
21	Mon		I	14	21	Thu	Result Analysis Report after MST-1	III	14	20	Fri	Departmental Meeting	V	14	20	Mon			
22	Tue		II	15	22	Fri	Virtual Parent Meeting	IV	15	21	Sun				21	Tue			
23	Wed	Workshop	III	16	23	Sat		V	16	22	Mon	Virtual Parent Meeting	I	15	23	Thu			
24	Thu	Workshop	IV	17	24	Sun				23	Mon		II	16	24	Fri			
25	Fri	Workshop	V	18	25	Mon	Teacher's Day & Freshers Welcome			24	Tue		III	16	25	Sat	Holiday		
26	Sat	Holiday			26	Tue	Letter to parents	I	17	25	Wed	Diwali and Lab Soft Activity	IV	17	26	Sun	Holiday		
27	Sun	Holiday			27	Wed	SDP	II	18	26	Thu	Religious Observance Understanding	III	17	26	Sun			
28	Mon				28	Thu	SDP	III	19	27	Fri	Distribution of Add on Course Certificate	IV	18	27	Mon	Guru Nanak Jayanti		
29	Tue		I	19	29	Fri	SDP	IV	20	28	Sat				28	Tue			
30	Wed	Raksha Bandhan	II	20	30	Sat	Holiday	V	21	29	Sun				29	Wed			
31	Thu		III	21						30	Mon	Technical Symposium	I	19		Thu			
Total				21					21					21					21

*Handwritten signature*

*Handwritten signature*  
Dean Academics

*Handwritten signature*  
Director



**Khalsa College of Engineering & Technology**  
**ਖਾਲਸਾ ਕਾਲਜ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ**  
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Department of Civil Engineering - Academic Planner for odd Semester (Aug 2023-Dec 2023)

Aug-23	Day	Details	Day Order	Working Days	Sep-23	Day	Details	Day Order	Working Days	Oct-23	Day	Details	Day Order	Working Days	Nov-23	Day	Details	Day Order	Working Days	
1	Tue	Commencement of Classes	I	1	1	Fri	Industrial Visit	I	1	1	Sun	Holiday			1	Wed	Mid Semester-II		1	
2	Wed		II	2	2	Sat	Holiday			2	Mon	Holiday (Mahatma Gandhi Birthday)			2	Thu	Mid Semester-II		2	
3	Thu		III	3	3	Sun	Holiday			3	Tue				3	Fri	Mid Semester-II		3	
4	Fri	Departmental Meeting	IV	4	4	Mon		I	2	4	Wed				4	Sat	Holiday			
		Holiday			5	Tue	Teachers Day Celebration	II	3	5	Thu				5	Sun	Holiday			
		Holiday			6	Wed		III	4	6	Fri				6	Mon	Syllabus Revision			
7	Mon		I	5	7	Thu	Expert Lectures	IV	5	7	Sat	Holiday			7	Tue	University Question Paper			
8	Tue		II	6	8	Fri	Departmental Meeting	V	6	8	Sun	Holiday			8	Wed	Preparatory Holidays			
9	Wed		III	7	9	Sat	Holiday			9	Mon	Technical Seminar/Workshops	I	5	9	Thu	Preparatory Holidays			
10	Thu		IV	8	10	Sun	Holiday			10	Tue		II	6	10	Fri	Preparatory Holidays			
11	Fri	Departmental Meeting	V	9	11	Mon	Mid Semester Exam-I			7	11	Wed			11	Sat	Holiday			
		Holiday			12	Tue	Mid Semester Exam-I			8	12	Thu			12	Sun	Holiday			
		Holiday			13	Wed	Mid Semester Exam-I			9	13	Fri	Departmental Meeting	V	9	13	Mon	Goodwill Days		
14	Mon		I	10	14	Thu	Departmental Meeting	I	10	14	Sun	Holiday			14	Tue	Goodwill Days			
		(Independence Day)			15	Fri		II	11	15	Mon	Holiday			15	Wed	End of Semester			
16	Wed		II	11	16	Sat	Holiday			16	Tue				16	Thu				
17	Thu		III	12	17	Sun	Holiday			17	Wed				17	Fri				
18	Fri	Departmental Meeting	IV	13	18	Mon		I	12	18	Wed	Workshop	III	12	18	Sat	Holiday			
		Holiday			19	Tue		II	13	19	Thu	Workshop	IV	13	19	Sun	Holiday			
		Holiday			20	Wed	Result Analysis Report after MST-I	III	14	20	Fri	Workshop	V	14	20	Mon				
21	Mon		I	14	21	Thu	Virtual Parent Meeting	IV	15	21	Sat	Holiday			21	Tue				
22	Tue		II	15	22	Fri	Departmental Meeting	V	16	22	Sun	Holiday			22	Wed				
23	Wed		III	16	23	Sat	Holiday			23	Mon		I	15	23	Thu				
24	Thu	Technical Seminar	IV	17	24	Sun	Holiday			24	Tue	Holiday (Dussehra day)			24	Fri				
25	Fri	Departmental Meeting	V	18	25	Mon	Teachers Feedback form analysis	I	17	25	Wed	Virtual Parent Meeting	II	16	25	Sat				
26	Sat	Holiday			26	Tue	Letter to Parents	II	18	26	Thu	Course and Lab Fee survey	III	17	26	Sun	Holiday			
27	Sun	Holiday			27	Wed		III	19	27	Fri	Departmental Meeting	IV	18	27	Mon	Holiday (Purnima Gurpurab of Sri Guru Nanak Dev Ji)			
28	Mon	Virtual Parent Meeting	I	19	28	Thu		IV	20	28	Sat	Holiday			28	Tue				
29	Tue		II	20	29	Fri	Departmental Meeting	V	21	29	Sun	Holiday			29	Wed				
30	Wed	Rakshas Bandhan	III		30	Sat	Holiday			30	Mon	Holiday (Purnima Gurpurab of Sri Guru Nanak Dev Ji)			30	Thu				
31	Thu		IV	21						31	Tue	Syllabus Completion Understanding	I	19						
Number of Working Days				21					21					19						

Saini  
HOD (CE)

Jyoti  
Dean Academics

Director



# Khalsa College of Engineering & Technology

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## Department of Mechanical Engineering - Academic Planner for odd Semester (Aug 2023-Nov 2023)

Aug-23	Day	Details	Day Order	Working Days	Sep-23	Day	Details	Day Order	Working Days	Oct-23	Day	Details	Day Order	Working Days	Nov-23	Day	Details	Day Order	Working Days
1	Tue	Commencement of Classes	I	1	1	Fri		I	1	1	Tue	Holiday	I	1	1	Wed	MST-II	I	1
2	Wed		II	2	2	Sat	Holiday	II	2	2	Thu	Guest's Lecture	II	2	2	Thu	MST-II	II	2
3	Thu		III	3	3	Sun	Holiday	III	3	3	Fri		III	3	3	Fri	MST-II	III	3
4	Fri		IV	4	4	Mon		IV	4	4	Wed		IV	4	4	Sat	Holiday		
5	Sat	Holiday			5	Tue	Teachers' Day Celebration	II	3	5	Thu		III	3	5	Sun	Holiday		
6	Sun	Holiday			6	Wed		III	4	6	Fri	Indian Air Force Day (Celebration)	IV	4	6	Mon	Result Analysis Report after MST-2		
7	Mon		I	5	7	Thu		IV	5	7	Tue	Holiday		7	7	Tue	Letter to parents /Syllabus revision		
8	Tue		II	6	8	Fri		V	6	8	Wed	Holiday		8	8	Wed	Previous year Univ. Question paper		
9	Wed		III	7	9	Sat	Holiday		9	9	Man		I	5	9	Thu	Preparatory Holidays		
10	Thu		IV	8	10	Sun	Holiday		10	10	Tue		II	6	10	Fri	Preparatory Holidays		
11	Fri	International Youth Day (Celebration)	V	9	11	Mon	MST-I	I	7	11	Wed		III	7	11	Sat	Holiday		
12	Sat	Holiday			12	Tue	MST-I	II	8	12	Thu		IV	8	12	Sun	Dussehra/Holiday		
13	Sun	Holiday			13	Wed	MST-I	III	9	13	Fri		V	9	13	Mon	Gowarshan Puja		
14	Mon		I	10	14	Thu	MST-I	IV	10	14	Sat			14	14	Tue	End Sem Examination		
15	Tue		II	11	15	Fri	Engineers Day	V	11	15	Sun			15	15	Wed			
16	Wed		III	12	16	Sat	Holiday		16	16	Mon		I	10	16	Thu			
17	Thu		IV	13	17	Sun	Holiday		17	17	Tue	Virtual parent meet	II	11	17	Fri			
18	Fri		V	14	18	Mon	Result analysis of MST1	I	12	18	Wed	Departmental Expert Talk	III	12	18	Sat	Holiday		
19	Sat	Holiday			19	Tue		II	13	19	Thu	World Students Day (Celebration)	IV	13	19	Sun	Holiday		
20	Sun	Holiday			20	Wed	Virtual parent meet	III	14	20	Fri		V	14	20	Mon			
21	Mon	Departmental Expert Talk/Seminar	I	14	21	Thu	International YWIT	IV	15	21	Sat			21	21	Tue			
22	Tue		II	15	22	Fri		V	16	22	Sun			22	22	Wed			
23	Wed		III	16	23	Sat	Holiday		23	23	Mon		I	15	23	Thu			
24	Thu		IV	17	24	Sun	Holiday		24	24	Tue			24	24	Fri			
25	Fri	International YWIT	V	18	25	Mon		I	17	25	Wed	Control and Lab Self Review	II	16	25	Sat	Holiday		
26	Sat	Holiday			26	Tue	Departmental Expert Talk/Workshop	II	18	26	Thu	Syllabus Completion/Information Day	III	17	26	Sun	Holiday		
27	Sun	Holiday			27	Wed	Teacher Incentive	III	19	27	Fri	Distribution of Add on Course certificate	IV	18	27	Mon	Guru Nanak Jyanti		
28	Mon	Virtual Parent Meet	I	19	28	Thu	Letter to parents	IV	20	28	Sat			28	28	Tue			
29	Tue		II	20	29	Fri		V	21	29	Sun			29	29	Wed			
30	Wed	Raksha Bandhan	III	21	30	Sat	Holiday		30	30	Mon	Prabhu Gauravak		30	30	Thu			
31	Thu		IV	22	31	Sun			31	31	Tue	MST-II	I	19	31	Wed			

HOD

Dean Academics

Director



**Khalsa College of Engineering & Technology**  
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Department of Electronics & Communication Engineering - Academic Planner for odd Semester (Aug 2023-Nov 2023)

Aug-23	Day	Details	Day Order	Working Days	Sep-23	Day	Details	Day Order	Working Days	Oct-23	Day	Details	Day Order	Working Days	Nov-23	Day	Details	Day Order	Working Days
1	Tue	Commence of Classes	I	1	1	Fri		I	1	1	Sun	Holiday			1	Wed	MST-I	I	1
2	Wed		II	2	2	Sat	Holiday			2	Mon	Gandhi Jayanti			2	Thu	MST-I	II	2
3	Thu		III	3	3	Sun	Holiday			3	Tue				3	Fri	MST-I	III	3
4	Fri		IV	4	4	Mon		I	2	4	Wed	Expert Talk on EDP			4	Sat	Holiday		
5	Sat	Holiday			5	Tue	Teachers Day Celebration	II	3	5	Thu				5	Sun	Holiday		
6	Sun	Holiday			6	Wed	PIPER Tutoring	III	4	6	Fri				6	Mon	Result Analysis Report after MST-2		
7	Mon		I	5	7	Thu		IV	5	7	Sat	Holiday			7	Tue	Letter to parents / Syllabus revision		
8	Tue		II	6	8	Fri	Departmental Meeting	V	6	8	Sun	Holiday			8	Wed	Preparatory Holidays		
9	Wed		III	7	9	Sat	Holiday			9	Mon				9	Thu	Preparatory Holidays		
10	Thu	Departmental Meeting	IV	8	10	Sun	Holiday			10	Tue				10	Fri	Preparatory Holidays		
11	Fri		V	9	11	Mon	MST-I	I	7	11	Wed	Industrial Visit			11	Sat	Holiday		
12	Sat	Holiday			12	Tue	MST-I	II	8	12	Thu				12	Sun	Divali/Holiday		
13	Sun	Holiday			13	Wed	MST-I	III	9	13	Fri	International E Waste Day			13	Mon	Sudarshana Puja		
14	Mon		I	10	14	Thu	MST-I	IV	10	14	Sat	Holiday			14	Tue	End Sem Examination		
15	Tue		II	11	15	Fri	Engineers Day	V	11	15	Sun	Holiday			15	Wed			
16	Wed		III	12	16	Sat	Holiday			16	Mon				16	Thu			
17	Thu		IV	13	17	Sun	Holiday			17	Tue				17	Fri			
18	Fri		V	14	18	Mon		I	12	18	Wed				18	Sat	Holiday		
19	Sat	Holiday			19	Tue		II	13	19	Thu				19	Sun	Holiday		
20	Sun	Holiday			20	Wed	Expert Talk on IPR	III	14	20	Fri	Departmental Meeting			20	Mon			
21	Mon		I	14	21	Thu	Result Analysis Report after MST-1	IV	15	21	Sat	Holiday			21	Tue			
22	Tue		II	15	22	Fri	Virtual Parent Meeting	V	16	22	Sun	Holiday			22	Wed			
23	Wed		III	16	23	Sat				23	Mon	Virtual Parent Meeting			23	Thu			
24	Thu		IV	17	24	Sun				24	Tue	Disasters			24	Fri			
25	Fri	Expert Talk	V	18	25	Mon	Workshop on PCB Design	I	17	25	Wed	Course and Lab Test Survey			25	Sat	Holiday		
26	Sat	Holiday			26	Tue	Workshop on PCB Design	II	18	26	Thu	Syllabus Completion Undertaking			26	Sun	Holiday		
27	Sun	Holiday			27	Wed	Workshop	III	19	27	Fri	Distribution of Add on Course certificate			27	Mon	Guru Nanak Jayanti		
28	Mon		I	19	28	Thu	Workshop	IV	20	28	Sat	Holiday			28	Tue			
29	Tue		II	20	29	Fri	Workshop	V	21	29	Sun	Holiday			29	Wed			
30	Wed	Holiday			30	Sat	Holiday			30	Mon	Prasad Samaroh			30	Thu			
31	Thu		III	21						31	Tue	MST-II			31				

HOD

DEAN ACADEMICS

Director





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**Department of Applied Sciences - Academic Planner for odd Semester (Aug 2023 - Nov 2023)**

Aug-23	Day	Details	Day Order	Working Days	Aug-23	Day	Details	Day Order	Working Days	Dec-23	Day	Details	Day Order	Working Days	Nov-23	Day	Details	Day Order	Working Days
	Tue	Orientation Program Start	I	1	Fri														
	Wed	Orientation Program	II	2	Sat														
	Thu	Orientation Program	III	3	Sun														
	Fri	Orientation Program	IV	4	Mon														
	Sat	Holiday		5	Tue		Teachers Day Celebration	II	3	Thu									
	Sun	Holiday		6	Wed			III	4	Fri									
	Mon	Orientation Program	I	5	Thu			IV	5	Sat									
	Tue	Orientation Program	II	6	Fri		International Literacy Day	V	6	Sun									
	Wed	Orientation Program	III	7	Sat														
	Thu	Orientation Program	IV	8	Sun														
	Fri	Orientation Program	V	9	Mon														
	Sat	Holiday		10	Tue														
	Sun	Holiday		11	Wed		MST-1	I	7	Thu		International Day of Girl Child	II	8	Fri				
	Mon	Orientation Program	I	10	Fri														
	Tue	Orientation+Classes	II	11	Sat														
	Wed	Orientation+Classes	III	12	Sun														
	Thu	Orientation+Classes	IV	13	Mon														
	Fri	Orientation+Classes	V	14	Tue														
	Sat	Holiday		15	Wed														
	Sun	Holiday		16	Thu														
	Mon	Orientation+Classes	I	15	Fri		MST-2	II	8	Sat									
	Tue	Orientation+Classes	II	16	Sun														
	Wed	Orientation+Classes	III	17	Mon														
	Thu	Orientation+Classes	IV	18	Tue														
	Fri	Orientation+Classes	V	19	Wed														
	Sat	Holiday		20	Thu														
	Sun	Holiday		21	Fri														
	Mon	Orientation+Classes	I	20	Sat		Result Analysis Report after MST-1	III	9	Sun									
	Tue	Orientation+Classes	II	21	Mon														
	Wed	Orientation+Classes	III	22	Tue														
	Thu	Orientation+Classes	IV	23	Wed														
	Fri	Orientation+Classes	V	24	Thu														
	Sat	Holiday		25	Fri														
	Sun	Holiday		26	Sat														
	Mon	Orientation+Classes	I	25	Sun														
	Tue	Orientation+Classes	II	26	Mon														
	Wed	Orientation+Classes	III	27	Tue														
	Thu	Orientation+Classes	IV	28	Wed														
	Fri	Orientation+Classes	V	29	Thu														
	Sat	Holiday		30	Fri														
	Sun	Holiday		31	Sat														
	Mon	Orientation+Classes	I	28	Sun														
	Tue	Orientation+Classes	II	29	Mon														
	Wed	Orientation+Classes	III	30	Tue														
	Thu	Orientation+Classes	IV	31	Wed														
	Number of Working Days				22					21					19				3

*Pardip Singh*  
HOD

*Jyoti*  
Dean Academics

*Arjun*  
Director



**Khalsa College of Engineering & Technology**

**ਖ਼ਾਲਸਾ ਕਾਲਜ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ**

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## Subject choice filling/ Teaching load



# Khalsa College of Engineering & Technology

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## DEPARTMENT OF CIVIL ENGINEERING

### CHOICE OPTION FORM OF COURSE FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER, SESSION: Jan, 2024- MAY, 2024)

S. No	Faculty Name	Course Option (Write only course code)				Lab Option (Write only Lab Code)		Signature
		1	2	3	4			
1	Er. Bikramjit Singh	BTCE-405-18	4514					
2	Er. Sahil Sharma	BTCE-401-18	2519			BTCE-406-18	3519	
3	Er. Ravinder Kaur	EVS-101-18	BTCE-404-18	4519		BTCE-407-18	5519	
4	Er. Akarshan Uppal	BTCE-403-18	PECE-603B-18	4515		6515		
5	Er. Harmeet Singh Chawla	BTCE-601-18	PECE-604C-18	PECE-602A-18		6514		
6	Er. Gurvinder Singh	4518	BTCE-402-18	51806	BTMC-101-18	6518	5191	

HOD SIGNATURE

Head  
Deptt. of Civil Engg.  
Khalsa College of Engg. & Tech.  
Amritsar



# Khalsa College of Engineering & Technology

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## DEPARTMENT OF MECHANICAL ENGINEERING

CHOICE OPTION FORM OF COURSE FOR ACADEMIC YEAR 2023-2024 (ODD SEMESTER, SESSION: Aug 2023- Nov 2023)

S. No	Faculty Name	Course Option (Write only course code)				Lab Option (Write only Lab Code)		Signature
		1	2	3	4			
1.	Dr. Sandeep Devgan	BTME 602-18	BTMP-101-18	—	—	BTME 601-18	BTMP-101-18	
2.	Dr. Jugraj Singh	BTME 503-18	—	—	—	BTME 506-18		
3.	Dr. Amit Mahajan	BTME 402-18	2493	—	—	3493		
4.	Dr. Sandeep Singh Sunny	BTME 604-18	2093	4853	—	BTME 604-18 3093	5853	
5.	Dr. Atul Agnihotri	BTME 601-18	BTME 604-18	9585	—	BTME 605-18	9510	
6.	Er. Jaspreet Singh	BTME 401-18	BTME 604-18	52553	—	BTME 401-18 9253	BTMPD 401-18	
7.	Er. Gurcharan Singh	BTME 101-21	9453	—	—	9357	9529	
8.	Er. Navin Kumar	BTME 402-18	—	—	—	BTME 402-18	9342	
9.	Er. Navin Singh	—	—	—	—	9357	9529	
10.	Er. Vinod Mahajan	BTME 403-18	BTMP 101-18	—	—	BTMP 101-18		

HOD SIGNATURE  
Mechanical Engg. Deptt.  
Khalsa College of Engg. & Technology  
Amritsar



**Khalsa College of Engineering & Technology**

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# Work Load

(Session Jan.2024-May 2024)



# Khalsa College of Engineering & Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER Jan 2024 - April 2024)

### 1. DR. SANDEEP DEVGAN (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
1.	3 <sup>rd</sup> / 6 <sup>th</sup>	BTME-602-18	Mechanical Measurements and Metrology	4	0	0	5	10	15
	3 <sup>rd</sup> / 6 <sup>th</sup>	BTME-606-18	Mechanical Measurements and Metrology Lab	0	0	2			
	1 <sup>st</sup> / 2 <sup>nd</sup>	BTMP-101-18	Workshop / Manufacturing Practices (B. Tech. App. Sci. Chemistry Group- G1)	1	0	0			
	1 <sup>st</sup> / 2 <sup>nd</sup>	BTMP-101-18	Workshop / Manufacturing Practices (B. Tech. App. Sci. Chemistry Group-G1)	0	0	8			

### 2. DR. JUGRAJ SINGH (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
2.	3RD / 6TH	BTME503-18	Automobile Engineering	3	0	0	3	2	5
	3RD / 6TH	BTME506-18	Automobile Engineering Lab	0	0	2			

### 3. DR. SANDEEP SINGH (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
3.	2 <sup>nd</sup> / 4 <sup>th</sup>	BTME-502-18	Materials Engineering	3	0	0	11	16	17
	2 <sup>nd</sup> / 4 <sup>th</sup>	BTME614-18	Materials Engineering Lab	0	0	2			

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	2 <sup>nd</sup> /4 <sup>th</sup>	2093	Strength of Materials (Diploma-ME-4 <sup>th</sup> )	4	0	0			
	2 <sup>nd</sup> /4 <sup>th</sup>	3093	Strength of Materials (Diploma-ME-4 <sup>th</sup> )	0	0	2			
	2 <sup>ND</sup> /4 <sup>TH</sup>	4853	Hydraulics and Pneumatics (Diploma-ME-4 <sup>th</sup> )	4	0	0			
	2 <sup>ND</sup> /4 <sup>TH</sup>	5853	Hydraulics and Pneumatics Lab (Diploma-ME-4 <sup>th</sup> )	0	0	2			

4. DR. AMIT MAHAJAN (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
4.	2 <sup>nd</sup> /4 <sup>th</sup>	BTME - 402-18	Theory of Machines-II	3	1	0	7	7	14
	2 <sup>nd</sup> /4 <sup>th</sup>	2493	Workshop Technology-II (Diploma-ME-4 <sup>th</sup> Sem. )	3	0	0			
	2 <sup>nd</sup> /4 <sup>th</sup>	3493	Workshop Technology-II Lab (Diploma-ME-4 <sup>th</sup> Sem. )	0	0	7			

5. DR. ATUL AGNIHOTRI (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
5.	3 <sup>RD</sup> / 6 <sup>TH</sup>	BTME-601-18	Refrigeration and Air Conditioning	3	1	0	10	5	15
	3 <sup>RD</sup> / 6 <sup>TH</sup>	BTME-605-18	Refrigeration and Air Condition Lab	0	0	2			
	3 <sup>RD</sup> / 6 <sup>TH</sup>	BTME614-18	Product Design and Development (B. Tech-CE)	3	0	0			
	1 <sup>st</sup> / 2 <sup>nd</sup>	9510	Introduction to CAD (Diploma-CE-2 <sup>ND</sup> )	0	0	3			
	2 <sup>nd</sup> /4 <sup>th</sup>	9585	Generic Skills and Entrepreneurship Development	3	0	0			

6. ER. JASJEEVAN SINGH (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
6.	2 <sup>nd</sup> /4 <sup>th</sup>	BTME-401-18	Applied Thermodynamics	3	1	0	12	6	18
	2 <sup>nd</sup> /4 <sup>th</sup>	BTME-406-18	Applied Thermodynamics Lab	0	0	2			

WZ

	3 <sup>RD</sup> / 6 <sup>TH</sup>	BTME 604-18	Introduction to Industrial Management	3	1	0			
	2 <sup>ND</sup> / 4 <sup>TH</sup>	5253	Thermodynamics-I (Diploma-ME-4 <sup>TH</sup> Sem.)	4	0	0			
	2 <sup>ND</sup> / 4 <sup>TH</sup>	9253	Thermodynamics-I Lab (Diploma-ME-4 <sup>TH</sup> Sem.)	0	0	2			
	2 <sup>ND</sup> / 4 <sup>TH</sup>	BMPD 401-18	Mentoring and Professional Development	0	0	2			

7. ER. KARANBIR SINGH (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
7.	1 <sup>ST</sup> / 2 <sup>ND</sup>	9357	General Workshop Practice - II (Diploma ME)	0	0	6	0	6	6
	1 <sup>ST</sup> / 2 <sup>ND</sup>	9529	General Workshop Practice - II (Diploma CSE)	0	0		0		

8. ER. NAVIN KUMAR (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
8.	2 <sup>ND</sup> / 4 <sup>TH</sup>	BTME-402-18	Fluid Machines	3	1	0	7	8	15
	2 <sup>ND</sup> / 4 <sup>TH</sup>	BTME-407-18	Fluid Machines Lab	0	0	2			
	2 <sup>ND</sup> / 4 <sup>TH</sup>		Add On Course	2	0	0			
	1 <sup>ST</sup> / 2 <sup>ND</sup>	9342	Engineering Drawing-II (Diploma-ME-2 <sup>ND</sup> )	0	0	6			
	2 <sup>ND</sup> / 4 <sup>TH</sup> , 3 <sup>RD</sup> / 6 <sup>TH</sup>		Personality Development Soft skills (ME)	1	0	0			

9. ER. GURCHARAN SINGH (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
9.	1 <sup>ST</sup> / 2 <sup>ND</sup>	BTME101-21	Engineering Graphics And Design B. Tech. App. Sci. (Physics Group-1)	1	0	5	2	17	19

W

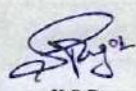


	1 <sup>st</sup> / 2 <sup>nd</sup>	BTME101-21,	Engineering Drawing And Design B. Tech. App. Sci. (Physics Group-2)	1	0	5			
	2 <sup>nd</sup> / 4 <sup>th</sup>	9453	Mechanical Engineering Drawing-II (Diploma-ME-4 <sup>th</sup> )	0	0	7			

10. ER. VINOD MAHAJAN (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
10.	2 <sup>nd</sup> / 4 <sup>th</sup>	BTME 403-18	Strength of Materials-II	3	1	0	7	10	17
	1 <sup>st</sup> / 2 <sup>nd</sup>	BTMP101-18	Workshop / Manufacturing Practices (B. Tech. App. Sci. Chemistry Group-G2)	1	0	0			
	1 <sup>st</sup> / 2 <sup>nd</sup>	BTMP101-18	Workshop / Manufacturing Practices (B. Tech. App. Sci. Chemistry Group-G2)	0	0	8			
	2 <sup>nd</sup> / 4 <sup>th</sup>		SCAI Entrepreneurial (Diploma-ME-4 <sup>th</sup> )	0	0	2			
	3 <sup>rd</sup> / 6 <sup>th</sup>		Add On Course	2	0	0			

  
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DEPARTMENT OF MECHANICAL ENGINEERING

WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER [Jan 2024 - April 2024])

### Minor Project

#### 1. DR. AMIT MAHAJAN (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
1.	3 <sup>rd</sup> / 6 <sup>th</sup>	BTME608-18	Minor Project	0	0	2	0	2	2

#### 2. DR. VINOD MAHAJAN (Asst. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
2.	3 <sup>rd</sup> / 6 <sup>th</sup>	BTME608-18	Minor Project	0	0	2	0	2	2

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WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER Jan 2024 - April 2024)


## Library

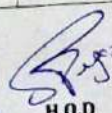
### 1. DR. ATUL AGNIHOTRI (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
1.	3 <sup>RD</sup> / 6 <sup>TH</sup>		Library	1	0	0	1	0	1

### 2. DR. SANDEEP SINGH SUNNY (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
2.	2 <sup>ND</sup> / 4 <sup>TH</sup>		Library	1	0	0	1	0	1

  
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WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER Jan 2024 - April 2024)


## TEACHING WORKLOAD TO OTHER DEPARTMENT

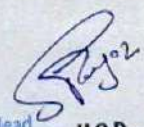
### 1. ER. RAWINDER KAUR (Asst. Professor)


Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
1.	3 <sup>RD</sup> / 6 <sup>TH</sup>	EVS-101-18	Environmental Science	3	0	0	3	0	3

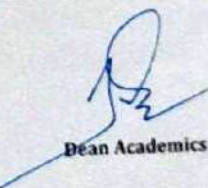
### 2. Dr. PARDEEP SINGH (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
2..	1 <sup>st</sup> / 2 <sup>nd</sup>	9246	Applied Mechanics (Diploma ME-2 <sup>nd</sup> Sem.)	3	0	0	3	2	5
	1 <sup>st</sup> / 2 <sup>nd</sup>	9356	Applied Mechanics Lab (Diploma ME-2 <sup>nd</sup> Sem.)	0	0	2			

  
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DEPARTMENT OF MECHANICAL ENGINEERING

WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2023-2024 (EVEN SEMESTER Jan 2024 - April 2024)

## TEACHING WORKLOAD FROM OTHER DEPARTMENT

1. DR. ATUL AGNIHOTRI (Assoc. Professor)

Sr. No.	Year/Semester	Course Code	Course Name	Theory/Lab			Theory Hours	Lab Hours	Total Hours
				L	T	P			
1.	3 <sup>RD</sup> / 6 <sup>TH</sup>	BTME614-18	Product Design and Development (B. Tech-CE)	3	0	0	3	0	3

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## Time Tables



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Department of Mechanical & Engineering

Session: (Jan - May 2024)

TIME TABLE - 4th Semester

(Room No: 126)

PERIOD/ DAY	9.00-9.55 1	9.55-10.50 2	10.50-11.00	11.00-11.55 3	11.55-12.50 4	12.50-1.45	1.45-2.40 5	2.40-3.30 6	3.30-4.20 7	
MON	AT (L)(JIS)	Add On Course (L) (NK)	BREAK	EVS (L) (RK)	F M/C (L)(NK)	LUNCH BREAK	SOM-II (L) (VM)	AT LAB (JIS/ HJS) (R-223)		
TUES	SOM-II (L) (VM)	ME (L) (SSS)		AT (L)(JIS)	EVS (L) (RK)		Library (SSS)	TOM-II (L)(AM)		
WED	F M/C (L)(NK)	TOM-II (L)(AM)		ME (L) (SSS)	AT (L)(JIS)		Add On Course (L) (NK)	F M/C LAB (NK / HJS) (R-226)		
THU	ME (L) (SSS)	F M/C (L)(NK)		SOM-II (L) (VM)	AT (T)(JIS)		TOM-II (L)(AM)	ME LAB (SSS / HJS) (R-129)		
FRI	F M/C (T)(NK)	SOM-II (T) (VM)		EVS (L) (RK)	TOM-II (T)(AM)		MPD (JIS) (ME-4 <sup>TH</sup> SEM.)		CEP (NK) (3:30-5:00)	
COURSE	CODE	FACULTY	COURSE	CODE	FACULTY					
Fluid Machines	BTME402-18	Er. Navin Kumar (NK)	Applied Thermodynamics Lab	BTME406-18	Er. Jasjvean Singh (JIS)/ (HIS) Mr. Harjinder Singh					
Theory Of Machines-II	BTME405-18	Dr. Amit Mahajan (AM)	Fluid Machines Lab	BTME407-18	Er. Navin Kumar (NK)/ (HJS) Mr. Harjinder Singh					
Materials Engineering	BTME404-18	Dr. Sandeep Singh Sunny (SSS)	Materials Engineering Lab	BTME4088-18	Dr. Sandeep Singh Sunny (SSS) / (HJS) Mr. Harjinder Singh					
Strength Of Materials-II	BTME403-18	Er. Vinod Mahajan (VM)	MPD	BMPD-401-18	Er. Jasjvean Singh (JIS)					
Applied Thermodynamics	BTME401-18	Er. Jasjvean Singh (JIS)	Environmental Science	EVS101-18	Er. Rawinder Kaur (RK)					
ADD ON Course		Er. Navin Kumar (NK)	CEP		Er. Navin Kumar (NK)					
			LIBRARY		DR. Sandeep Singh Sunny (SSS)					

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Department of Mechanical Engineering										
TIME TABLE - 6th Semester										
Session: (Jan - May 2024)										
(Room No: 106)										
PERIOD/ DAY	9.00-9.55 1	9.55-10.50 2	10.50-11.00	11.00-11.55 3	11.55-12.50 4	12.50-1.45	1.45-2.40 5	2.40-3.30 6	3.30-4.20 7	
MON	MMM (L) (SD)	PDD(L)(AA)	BREAK	AE (L) (JS)	RAC (L)(AA)	LUNCH BREAK	AE (L) (JS)	RAC Lab (AA/ HJS) (R-225)		
TUES	IIM (L)(JJS)	Add On Course (L) (VM)		Library(AA)	RAC (L)(AA)		AE (L) (JS)			
WED	RAC (L)(AA)	IIM (L)(JJS)		AE (L) (JS)	MMM (L) (SD)		PDD(L)(AA)	MMM Lab (SD)(R-115)/ (HJS)		
THU	IIM (L)(JJS)	MMM (L) (SD)		AE (L) (JS)	RAC (L)(AA)		RAC (T)(AA)	Minor Project (AM/VM) (R-128)		
FRI	Add On Course (L) (VM)	IIM (T)(JJS)		PDD(L)(AA)	MMM (L) (SD)		AE Lab (JS/ HJS) (R-223)		CEP (3:30-5:00)	
COURSE	CODE	FACULTY	COURSE	CODE	FACULTY					
Refrigeration & Air Conditioning	BTME601-18	Dr. Atul Agnihotri (AA)	Refrigeration & Air Conditioning Lab	BTME605-18	Dr. Atul Agnihotri (AA)/ Mr/(HJS) Harjinder Singh					
Mechanical Measurements & Metrology	BTME602-18	Er. Sandeep Devgan (SD)	Mechanical Measurements & Metrology	BTME606-18	Er. Sandeep Devgan (SD)/ Mr/(HJS) Harjinder Singh					
Automobile Engineering	BTME603-18	Dr. Jugraj Singh (JS)	Automobile Engineering	BTME607-18	Dr. Jugraj Singh (JS)/ Mr/(HJS) Harjinder Singh					
ADD ON Course		Er. Vinod Mahajan (VM)	LIBRARY		Dr. Atul Agnihotri (AA)					
Product Design and Development	BTME614-18	Dr. Atul Agnihotri (AA)	CEP		Er. Navin Kumar (NK)					
Introduction to Industrial management	BTME604-18	Er. Jasjeevan Singh (JJS)	Minor Project	BTME608-18	Dr. Amit Mahajan (AM) / Er Vinod Mahajan (VM)					

*[Signature]*  
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 H.O.D

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## KHALSA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRITSAR

Even Sem. Time Table( Jan - May 2024)

Name of the Faculty Member :ER. SANDEEP SINGH SUNNY											
Designation : A.P											
Department : ME											
Total Load:17											
DAY/Period	09:00-9:55	9:55-10:50	10:50-11:00	11:00-11:55	11:55-12:50	12:50-1:45	1:45-2:40	2:40-3:30	3:30-4:20	4:20-5:00	
	1	2		3	4		5	6	7	8	
MON			BREAK		SOM (L) (DME-4 <sup>TH</sup> SEM.)	LUNCH BREAK		H & P (L) (DME-4 <sup>TH</sup> SEM.)	SOM (Lab) (SSS)		
TUE		ME (L) (ME-4 <sup>TH</sup> SEM.)			H & P (L) (DME-4 <sup>TH</sup> SEM.)		Library (ME-4 <sup>TH</sup> )		SOM (L) (DME-4 <sup>TH</sup> SEM.)		
WED					ME (L) (ME-4 <sup>TH</sup> SEM.)				H & P (L) (DME-4 <sup>TH</sup> SEM.)	H & P Lab (SSS)	
THU	ME (L) (ME-4 <sup>TH</sup> SEM.)								H & P (L) (DME-4 <sup>TH</sup> SEM.)	ME LAB (SSS / HS) (R-129) (ME-4 <sup>TH</sup> SEM.)	
FRI									SOM (L) (DME-4 <sup>TH</sup> SEM.)		SOM (L) (DME-4 <sup>TH</sup> SEM.)

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KHALSA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRITSAR											
Even Sem. Time Table( Jan - May 2024)											
Name of the Faculty Member :ER. JASJEEVAN SINGH											
Designation : A.P											
Department : ME Total Load:18											
DAY/Period	09:00-9:55	9:55-10:50	10:50-11:00	11:00-11:55	11:55-12:50	12:50-1:45	1:45-2:40	2:40-3:30	3:30-4:20	4:20-5:00	
	1	2		3	4		5	6	7	8	
MON	AT (L)(JJS) (ME-4 <sup>TH</sup> SEM.)		BREAK	TD-1(L) (JJS)		LUNCH BREAK		AT LAB (JJS/ HS) (R-223) (ME-4 <sup>TH</sup> SEM.)			
TUE	IIM (L) (ME-6 <sup>th</sup> SEM.)			AT (L)(JJS) (ME-4 <sup>TH</sup> SEM.)			TD-1(L) (JJS)				
WED		IIM (L) (ME-6 <sup>th</sup> SEM.)			AT (L)(JJS) (ME-4 <sup>TH</sup> SEM.)				TD-1(L) (JJS)		
THU	IIM (L) (ME-6 <sup>th</sup> SEM.)				AT (T)(JJS) (ME-4 <sup>TH</sup> SEM.)				TD-1(L) (JJS)	TD-1 lab (JJS)	
FRI		IIM (T) (ME-6 <sup>th</sup> SEM.)							MPD (JJS/HJS) (ME-4 <sup>TH</sup> SEM.)		

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# Remedial Classes

# Time-Table



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DEPARTMENT OF MECHANICAL ENGINEERING		
Even Sem Time Table (Jan'24- May'24) for REMEDIAL CLASSES		
DAY	TIMINGS :4:20 PM - 5:00PM (w.e.f:11 - 03 -2024)	
	ME 4TH SEM (R-126)	ME 8TH SEM (R-104)
Monday	AT	MMM
Tuesday	FM	PDD (2:40-3:30PM)
Wednesday	TOM	IIM
Thursday	ME/EVS	AE
Friday	SOM-II	RAC

SUBJECT	CODE	FACULTY
AT	BTME401-18	Er. Jasjeevan Singh
FM	BTME402-18	Er. Navin Kumar
TOM	BTME405-18	Dr. Amit Mahajan
SOM-II	BTME403-18	Er. Vinod Mahajan
ME	BTME404-18	Dr. Sandeep Singh Sunny
EVS	EVS101-18	Er. Ravinder Kaur
PDD	BTME614-18	Dr. Atul Agnihotri
IIM	BTME604-18	Er. Jasjeevan Singh
RAC	BTME601-18	Dr. Atul Agnihotri
MMM	BTME602-18	Dr. Sandeep Devgan
AE	BTME603-18	Dr. Jugraj Singh

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DEAN ACADEMICS

DIRECTOR

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Dr. Anand Singh  
 (IT In-charge of College)

Dr. Anand Singh  
 (Dean Academic AKTE)

Dr. Mohinder Sangota  
 (Dean Academic Non-AKTE)

Dr. Mohinder Sangota  
 (Director)



**7 YEAR TIME TABLE (upto 2021)**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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**DEPARTMENT OF MECHANICAL ENGINEERING**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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**DEPARTMENT OF CIVIL ENGINEERING**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
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**DEPARTMENT OF ELECTRICAL ENGINEERING & COMMUNICATION ENGINEERING**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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**DEPARTMENT OF I.T.**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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**DEPARTMENT OF HOTEL MANAGEMENT**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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**DEPARTMENT OF APPLIED SCIENCES**

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period No. →	1	2	3	4	5
SR. NO.	1	2	3	4	5
Faculty →					
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L= Lecture, T= Tutorial, P= Practical, \* = Library, C = Sem. 1, L = Personality Development

Dr. Hardeep Kaur (In Charge of College)  
 Dr. Jagjit Singh (Dean Academics ACTE)  
 Dr. Mahinder Sangota (Dean Academics Non-ACTE)  
 Dr. Manju Bala (Director)



**Khalsa College of Engineering & Technology**

**ਖ਼ਾਲਸਾ ਕਾਲਜ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ**

*Governed by Khalsa College Charitable Society, Amritsar, Estd. 1892*  
Approved by AICTE, New Delhi & Affiliated to IKG Punjab Technical University, Jalandhar (Govt. of Punjab)

**Accredited By NAAC Grade "A"**



## Course Breakup

**Course Information sheet**

<b>Degree/Program: -B.Tech/CSE</b>		<b>Year/Semester: - 3<sup>rd</sup>/ 5th</b>
<b>Course Name: - Formal Languages and Automata Theory</b>		<b>Course Code: - BTCS 502-18</b>
<b>Course Type: - Professional Core</b>		<b>Credit: - 3</b>
<b>UNIT</b>	<b>Course Syllabus as per University Scheme</b>	<b>Hour</b>
1	Alphabet, languages and grammars, productions and derivation, Chomsky hierarchy of languages.	3hrs
2	Regular expressions and languages, deterministic finite automata (DFA) and equivalence with regular expressions, nondeterministic finite automata (NFA) and equivalence with DFA, regular grammars and equivalence with finite automata, properties of regular languages, pumping lemma for regular languages, minimization of finite automata.	8hrs
3	Context-free grammars (CFG) and languages (CFL), Chomsky and Greibach normal forms, nondeterministic pushdown automata (PDA) and equivalence with CFG, parse trees, ambiguity in CFG, pumping lemma for context-free languages, deterministic pushdown automata, closure properties of CFLs.	8hrs
4	Context-sensitive grammars (CSG) and languages, linear bounded automata and equivalence with CSG.	5hrs
5	The basic model for Turing machines (TM), Turing recognizable (recursively enumerable) and Turing-decidable (recursive) languages and their closure properties, variants of Turing machines, nondeterministic TMs and equivalence with deterministic TMs, unrestricted grammars and equivalence with Turing machines, TMs as enumerators.	8hrs
6	Church-Turing thesis, universal Turing machine, the universal and diagonalization languages, reduction between languages and Rice's theorem, undecidable problems about languages. Intractability: Notion of tractability/feasibility. The classes NP and co-NP, their importance. Polynomial time many-one reduction. Completeness under this reduction. Cook-Levin theorem: NP-completeness of propositional satisfiability, other variants of satisfiability. NP-complete problems from other domains: graphs (clique, vertex cover, independent sets, Hamiltonian cycle), number problem (partition), set cover	12hrs
<b>Total Marks: 100</b>		<b>Contact Hour: - 3+0=3 hr. (L+T)/week</b>
<b>Corresponding Lab Course: - nil</b>		<b>Corresponding Lab Code: -nil</b>

**Faculty Incharge**

Name: Dr. Jasleen Kaur (Associate. Prof.)  
Deptt. of Computer Science and Engg.

**Checked By**

Dr. Jasleen Kaur (H.O.D)  
Deptt. of Computer Science & Engg.



**Text/Reference Books:**

1. John E. Hopcroft, Rajeev Motwani and Jeffrey D. Ullman, Introduction to Automata Theory, Languages, and Computation, Pearson Education Asia.
2. Harry R. Lewis and Christos H. Papadimitriou, Elements of the Theory of Computation, Pearson Education Asia.
3. Dexter C. Kozen, Automata and Computability, Undergraduate Texts in Computer Science, Springer.
4. Michael Sipser, Introduction to the Theory of Computation, PWS Publishing
5. John Martin, Introduction to Languages and The Theory of Computation, Tata McGraw Hill.

**Delivery/Instruction Methodologies (Tick Appropriate):**

Chalk & Talk	✓	Projectors/Smart Board	✓	Web Resources	✓
Online videos	✓	Others			

**Assessment Methodologies -Direct(Tick Appropriate):**

MSTs/Test	✓	Assignments	✓	Tutorials	
Quizzes	✓	University Exams	✓	Lab Cont. Evaluation	
Viva Voice		Seminar	✓	Others	

**Assessment Methodologies-In Direct(Tick Appropriate):**

Assessment of Course Outcome (By feedback once)	✓	Student Feedback on Faculty	✓
Others			

**Faculty Incharge**

Name: Dr. Jasleen Kaur(Associate. Prof.)  
 Deptt. of Computer Science andEngg.

**Checked By**

Dr. Jasleen Kaur(H.O.D)  
 Deptt. of Computer Science &Engg.

### LECTURE SCHEDULE

**Degree/Program:** B.Tech/ CSE

**Course Name:** Formal Languages and Automata Theory

**Faculty Name:** Dr. Jasleen Kaur

**Course Code:-** BTCS 502-18

**Duration:** Aug 2023-Dec 2023

**Semester:** 5<sup>th</sup>

**Aim:**

**Objective:** To motivate and challenge students to understand properties of formal languages, formal grammars and finite automata and design automata to accept set of strings of language. Also to understand the concept of decidability, NP completeness and NP-hard problem.

**Pre-Requisite:** Design Analysis and Algorithm

**Teaching Aids:-** Chalk & Talk, PPT/Projectors, Online videos.

**Course Outcomes:** After the course, the students should be able to

	<b>Course Outcomes</b>	<b>POs</b>	<b>PSOs</b>
<b>CO1</b>	Write a formal notation for strings, languages and machines.	1,2,3,5	1,2
<b>CO2</b>	Design finite automata to accept a set of strings of a language.	1,2,3,5	1,2
<b>CO3</b>	Design context free grammars to generate strings of context free language .	1,2,3,5	1,2
<b>CO4</b>	Determine equivalence of languages accepted by Push Down Automata and languages generated by context free grammars.	1,2,3,5	1,2
<b>CO5</b>	Distinguish between computability and non-computability and Decidability and undecidability.	1,2,3,5	1,2

**Faculty Incharge**

Name: Dr. Jasleen Kaur (Associate. Prof.)  
Deptt. of Computer Science and Engg.

**Checked By**

Dr. Jasleen Kaur (H.O.D)  
Deptt. of Computer Science & Engg.

# KHALSA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRITSAR

**Subject:** Formal Languages and Automata Theory  
**Sub Code:** BTCS-502-18  
**Faculty:** Dr. Jasleen Kaur

**Branch:** CSE  
**Sem:** 5th  
**Session:** August-Nov 2023

Lect. No	Topics to be Covered	Planned Date	Period Number	Actual Date	Sign
<b>MODULE-1 Introduction (Formal Languages)</b>					
1	Basic definition and examples of Grammar	1-08-2023	2	7-08-2023	Jasleen
2	Derivations and language generated by a grammar	2-08-2023	2	8-08-2023	Jasleen
3	Examples	3-08-2023	2	10-08-2023	Jasleen
4	Construction of a Grammar	7-08-2023	2	14-08-2023	Jasleen
5	Examples	8-08-2023	2	14-08-2023	Jasleen
6	Chomsky Classification of languages	9-08-2023	2	16-08-2023	Jasleen
7	Languages and their corresponding automata	9-08-2023	2	16-08-2023	Jasleen
<b>MODULE-2 Regular Languages and Finite Automata</b>					
8.	Definition of Automation	10-08-2023	2	7-08-2023	Jasleen
9.	Characteristics of Automation	10-08-2023	2	17-08-2023	Jasleen
10.	Description of Finite Automation	14-08-2023	2	17-08-2023	Jasleen
11	Transition Systems	16-08-2023	2	18-08-2023	Jasleen
12	Properties of Transition Functions	16-08-2023	2	18-08-2023	Jasleen
13	Acceptability of a string by a finite automation	16-08-2022	2	18-08-2023	Jasleen
14	Examples	17-08-2023	1	21-08-2023	Jasleen
15	Examples	21-08-2023	1	21-08-2023	Jasleen
16	Non Deterministic finite state machines	22-08-2023	2	22-08-2023	Jasleen
17	Examples	22-08-2023	2	22-08-2023	Jasleen
18	The Equivalence of DFA and NFA	23-08-2023	2	23-08-2023	Jasleen
19	Examples	23-08-2023	2	23-08-2023	Jasleen
20	Finite Automata with Outputs Mealy and Moore models	24-08-2023	2	24-08-2023	Jasleen
21	Regular Expressions	28-08-2023	2	28-08-2023	Jasleen

22	Identites for regular expressions	29-08-2023	2	29-08-2023	John
23	Arden's Theorem	31-08-2023	2	29-08-2023	John
24	Transition systems and regular expressions	4-09-2023	2	4-09-2023	John
25	Transition system containing null moves	5-09-2023	2	5-09-2023	John
26	Algebraic method using Arden's Theorem	6-09-2023	2	6-09-2023	John
27	Construction of Finite automata equivalent to a regular expression	7-09-2023	2	7-09-2023	John
28	Equivalence of two finite automata	18-09-2023	2	11-09-2023	John
29	Equivalence of two regular expressions	18-09-2023	2	11-09-2023	John
30	Pumping Lemma A Context-sensitive language is recursive	19-09-2023	2	12-09-2023	John
31	Closure properties of regular sets	20-09-2023	2	12-09-2023	John
32	Construction of a regular grammar	20-09-2023	2	18-09-2023	John
Assignment No:1		Date of Announcement:-	4-09-2023	Date of Submission:-	11-09-2023

### MODULE-3 Context free languages and Pushdown Automata

33	Derivation Trees	21-09-2023	2	20-09-2023	John
34	Leftmost and Rightmost derivation	21-09-2023	2	20-09-2023	John
35	Ambiguity in Context free grammars	25-09-2023	2	21-09-2023	John
36	Simplification of context free grammars	26-09-2023	2	25-09-2023	John
37	Construction of Reduced Grammar	26-09-2023	1	26-09-2023	John
38	Elimination of Null Production	27-09-2023	2	27-09-2023	John
39	Elimination of Unit Production	27-9-2023	2	27-09-2023	John
40	Normal forms for context free grammars	28-9-2023	2	28-09-2023	John
41	Chomsky normal form	28-9-2023	2	28-09-2023	John
42	Greibach normal form	3-10-2023	1	3-10-2023	John
43	Definition and examples of Pushdown Automata	4-10-2023	2	4-10-2023	John
44	Acceptance by Null store	5-10-2023	2	5-10-2023	John

45	Construction of pda equivalent to context free grammar	9-10-2023	2	9-10-2023	Jain
46	Construction of context free grammar	10-10-2023	1	10-10-2023	Jain
<b>MODULE-4 Context Sensitive Languages</b>					
47	Context Sensitive grammars and Languages	11-10-2023	2	12-10-2023	Jain
48	Linear Bounded Automata	12-10-2023	5	13-10-2023	Jain
49	Equivalence with CSG	12-10-2023	5	13-10-2023	Jain
	<b>Assignment No:2</b>	<b>Date of Announcement:- 9-10-2023</b>		<b>Date of Submission:- 13-10-2023</b>	
<b>MODULE-5 Turing Machines</b>					
50	Turing machine model & Representation of Turing Machines	16-10-2023	2	16-10-2023	Jain
51	Design of Turing Machines	17-10-2023	1	17-10-2023	Jain
52	Halting Problem The Post Correspondence problem	18-10-2023	2	19-10-2023	Jain
53	Variants of Turing machines	18-10-2023	2	19-10-2023	Jain
54	Definition, Properties of LR(k) Grammars	19-10-2023	2	23-10-2023	Jain
55	Decidability and recursively enumerable languages, TMs as enumerators	19-10-2023	2	23-10-2023	Jain
<b>MODULE-6 Undecidability and Intractability</b>					
56	Church-Turing thesis and Reduction between languages and Rice's theorem	23-10-2023	2	26-10-2023	Jain
57	Undecidable Problems :The classes NP and co-NP & Cook-Levin theorem	25-10-2023	1	31-10-2023	Jain
58	Graphs	26-10-2023	2	1-11-2023	Jain
	<b>Assignment No:3</b>	<b>Date of Announcement:-</b>		<b>Date of Submission:-</b>	
59	Revision	6-11-2023	1	7/11/2023	Jain
60	Revision	7-11-2023	2	8-9/11/2023	Jain

Number of proposed Lectures: 45  
Number of proposed assignments: 3  
Number of proposed Tests: 2(MST)

Text References:

1. K.L.P. Mishra and N. Chandrasekaran, "Theory of Computer Science, Third Edition", PHI Learning Private Limited, 2011.
2. John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman, "Introduction to Automata Theory", Languages and Computation, Pearson Education.