

Module 00

Pralay Mitra & P P Das

Course Information

Material

Laborate

Assignmen

Tests
Holidays

TAs and Teache

Module 00: CS31003: Compilers & CS39003: Compilers Laboratory

Course Information

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Course Material

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- Slides will be uploaded to CSE Moodle Server:
 https://moodlecse.iitkgp.ac.in/moodle
- Books:
 - Compilers: Principles, Techniques, and Tools (2nd Edition) by A.V. Aho, Monica S Lam, R. Sethi, Jeffrey D. Ullman (Pearson / Addison-Wesley)
 - o Flex and Bison by John Levine (O'Reilly)
 - Compiler Design in C by Allen Holub
 - Advanced Compiler Design and Implementation by Steven Muchnick
- Video:
 - o Compiler Design by Y N Srikant, NPTEL



About the Compilers Theory Course

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Theory

Timetable

Slot B3: MON (11:00–11:55), TUE (08:00–09:55)

Section Allocation

Section 1 (PPD)

Section 2 (Pralay)

Classes:

Online on Microsoft Teams

▶ Login to MS Teams using your IIT KGP email id.

Post-delivery videos on YouTube

Evaluation

o 3 Class Tests: 75%

1 Assignment & 25%

Attendance: Compulsory

00.3



About the Compilers Laboratory Course

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• Slot N: THR (14:00–16:55): Online from 14:30

Section Allocation

Section 1 (PPD)

Section 2 (PM)

• Lecture on Lab: Online with prior announcement

Evaluation

Assignments: 70%Two Quizzes: 30%

• Attendance: Compulsory during lecture hours

Zero tolerance to plagiarized submissions



The Coordinating Platforms

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- Moodle will be used for the course. Register on Moodle immediately to:
 - CS30003 _A21-22 Compilers: Compilers (Password: compilers21A)
 - CS39003_21-22A Compilers Laboratory: Compilers Laboratory (Password: compilers21A)
- All assignments / material will be uploaded to Moodle
- All announcements will be made on Moodle. Keep checking
- ERP will also be used at times for communication. Make sure that your registered email at ERP works



The Submissions

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Material Theory Laboratory Platforms Assignments

- The submissions for assignments will be accepted *only* through Moodle up to the specified deadline.
- No submission through mail or directly to the TA will be entertained
- Late submissions for up to 3 days are allowed on request with 10% penalty



Theory Assignments

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• Assignments #1: Individual

• Language: C++

• Platform: Unix

• Tools: GNU – Flex, Bison, GCC

• Target Language: tinyC

• Target Architecture: x86-64



Laboratory Assignments

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Assignments #1 and #2, are individual

• Assignments #3, #4, #5 and #6 are in groups of two

• Every student / group will be assigned a TA. This may change with assignments

• Language: C++

• Platform: Unix

• Tools: GNU - Flex, Bison, GCC

Target Language: tinyC

• Target Architecture: x86-64



List of Theory and Laboratory Assignments

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SI. No.	Description	Assign Date	Submit Date	Weeks
#1	Annotating Assembly	12-Aug-21	25-Aug-21	2
#2	Creating Library	26-Aug-21	02-Sep-21	1
#3	Lexer for tinyC	02-Sep-21	08-Sep-21	1
	Class Test 1 & Lab Quiz 1	09-Sep-21		
#4	Parser for tinyC	09-Sep-21	22-Sep-21	2
#5	TAC Code Generator for tinyC	23-Sep-21	20-Oct-21	3
	Class Test 2	07-Oct-21		
	Autumn Break	12-Oct-21	17-Oct-21	
#6	x86 Code Generator for tinyC	21-Oct-21	10-Nov-21	3
	Class Test 3 & Lab Quiz 2	18-Nov-21		
#7	Theory: Optimization	21-Oct-21	10-Nov-21	3

Assignments are indicative and are likely to change before actually being assigned. The dates are tentative.



Holidays

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Independence Day	15.08.2021	Sunday	01
Muharram	19.08.2021	Thursday	01
Mahatma Gandhi's Birthday	02.10.2021	Saturday	01
Dussehra (Maha Saptami) (Additional)	12.10.2021	Tuesday	01
Dussehra (Maha Astami) (Additional)	13.10.2021	Wednesday	01
Dussehra (Maha Nabami) (Additional)	14.10.2021	Thursday	01
Dussehra (Vijaya Dashami)	15.10.2021	Friday	01
Prophet Mohammad' Birthday (Id-E-Milad)	19.10.2021	Tuesday	01
Diwali (Deepavali)	04.11.2021	Thursday	01
Guru Nanak's Birthday	19.11.2021	Friday	01



TAs and Teachers

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Course nformation Material Theory

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TAs and Teachers

SI.#	Name	Email	Mobile
1	Abhishek Kumar	merealone2516@gmail.com	7018763100
		abhishek16@kgpian.iitkgp.ac.in	
2	Saptami Ghosh	ghoshsaptami@gmail.com sghosh@iitkgp.ac.in	9477647034
3	Srijoni Majumdar	majumdar.srijoni@gmail.com	9674474267
4	Soumen Paul	soumenpaul2019@iitkgp.ac.in soumenpaul165@gmail.com	7980054589
5	Purnima Gautam	purnimagautam94@gmail.com	7004288151
6	Venktesh Shrimant Lagaskar	vslagaskar@iitkgp.ac.in vslagaskar@gmail.com	9146659423
7	Rohit (dual-degree)	rohit@iitkgp.ac.in rohitsanjay64@gmail.com	9304016011
8	Karanam Tejendhar	karanamtejendhar1@iitkgp.ac.in karanamtejendhar@gmail.com	8919177559
9	Abhik Naskar	naskarabhik98@iitkgp.ac.in naskarabhik98@gmail.com	8617091413 8145137347
10	Ankit Saurabh	ankit4471@iitkgp.ac.in ankit4471@gmail.com	9783950919
11	Pralay Mitra	pralay@cse.iitkgp.ac.in	9734373565
12	Partha Pratim Das	ppd@cse.iitkgp.ac.in	9830030880



Important Dates

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Class Test 1 & Lab Quiz 1 09-Sep-21, 2-5 pm Class Test 2 07-Oct-21, 2-5 pm Class Test 3 & Lab Quiz 2 18-Nov-21, 2-5 pm