

CS31003: Compilers & CS39003: Compilers Laboratory

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Course Material

Compilers

Partha Pratim
Das
Goutam
Biswas

- Slides will be uploaded to Intinno.
- Books:
 - Compilers: Principles, Techniques, and Tools (2nd Edition) by A.V. Aho, Monica S Lam, R. Sethi, Jeffrey D. Ullman (Pearson / Addison-Wesley)
 - Flex and Bison by John Levine (O'Reilly)
 - Compiler Design in C by Allen Holub
 - Advanced Compiler Design and Implementation by Muchnick

About the Compilers Theory Course

Compilers

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- MON(09:30-10:30), WED(07:30-08:30),
WED(08:30-09:30), THURS(09:30-10:30): NR 224

- Evaluation

Mid-semester 30%

End-semester 50%

Two Class Tests 20%

- Meeting Outside Class: By appointment through mail

About the Compilers Laboratory Course

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- TUE(01:30-04:30): NC 243
- Lecture from: 2:30pm
- With Prof. Goutam Biswas
- Evaluation

Assignments 70%

Two Quizzes 30%

- Meeting Outside Class: By appointment through mail
- Zero tolerance to plagiarized submissions.

The Coordinating Platforms

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- Intinno will be used for the course. Register on Intinno immediately to:
 - Compilers 2014 Autumn
 - Compilers Laboratory 2014 Autumn
- All assignments / material will be uploaded to Intinno.
- The submissions will be accepted *only* through Intinno up to the specified deadline. No submission through mail or directly to the TA will be entertained.
- All announcements will be made on Intinno. Keep checking.
- ERP will also be used at times for communication. Make sure that your registered email at ERP works.

Laboratory Assignments

Compilers

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- Assignments are individual
- Every student will be assigned a TA
- Language: C++
- Platform: Unix
- Tools: GNU
- Target Architecture: 32-bit

List of Laboratory Assignments

Compilers

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Sl. No.	Description	Assign Date	Submit Date	Weeks
1	Annotating Assembly	22-Jul-14	28-Jul-14	1
2	Creating Library	29-Jul-14	04-Aug-14	1
3	Scanner in C++	05-Aug-14	18-Aug-14	2
4	Predictive Parser in C++	19-Aug-14	01-Sep-14	2
	<i>Class Test 1 & Lab Quiz 1</i>	27-Aug-14		
5	TinyC Scanner in Flex & Parser in Bison	02-Sep-14	08-Sep-14	1
	<i>Mid-Sem</i>	15-Sep-14	23-Sep-14	
6	Translation from TinyC to 3-Address Code	23-Sep-14	20-Oct-14	3
	<i>Puja Break</i>	30-Sep-14	06-Oct-14	
7	Translation from 3-Address Code to x86 Assembly	21-Oct-14	10-Nov-14	3
	<i>Class Test 2 & Lab Quiz 2</i>	05-Nov-14		
	<i>End-Sem</i>	20-Nov-14	28-Nov-14	

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

TA and Teachers

Compilers

Partha Pratim
Das
Goutam
Biswas

Sl. No.	Name	Email	Mobile
1	Tanwi Mallik	tanwimallick@gmail.com	9674277774
2	Aakash Anuj	aakashanuj.iitkgp@gmail.com	7501465026
3	Aakash Goenka	aakash.goenka@gmail.com	9831784511
4	Abhishek	abhishek2175@gmail.com	7501465092
5	Rajan Buha	rajan.buha@gmail.com	8927027373
6	Goutam Biswas	goutamamartya@gmail.com	8101457316
7	Partha Pratim Das	partha.p.das@gmail.com	9830030880

Important Dates

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Class Test 1 & Lab Quiz 1	27-Aug-14, 6–9 pm
Class Test 2 & Lab Quiz 2	05-Nov-14, 6–9 pm
Mid-Sem	15-Sep-14 to 23-Sep-14
End-Sem	20-Nov-14 to 28-Nov-14