

JANUARY 2026 INTAKE

Subject : Semiconductor Physics & Devices

Venue : Lecture - **LT4 at HCI**

Tutorial - **B301 and B302 at HCI**

Schedule : Lecture - Thursdays 4.00 pm - 6.30 pm

Tutorial Group T1: Mondays 3:30 pm - 5:30 pm

Tutorial Group T2: Mondays 5:00 pm - 7:00 pm

Tutorial Group T3: Tuesdays 3:30 pm - 5:30 pm

Tutorial Group T4: Tuesdays 5:00 pm - 7:00 pm

H3 WK No.	Duration	Day/ Date	Timings/ Groupings	Lesson Topic	Nature of Lesson (Lecture/Tutorial)	Venue
Week 1 (12 Jan - 16 Jan 2026)	2.5 hours	Tue 13 Jan	4.00 pm - 6.30 pm ALL	Introduction to Semiconductors	Lecture 1	LT 4 at HCI
	2.5 hours	Thu 15 Jan	4.00 pm - 6.30 pm ALL	Semiconductor Crystal Structure Energy Bands of Semiconductor	Lecture 2	LT 4 at HCI
Week 2 (19 Jan - 23 Jan 2026)	2 hours	Mon 19 Jan	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 1	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 20 Jan	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 1	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2.5 hours	Thu 22 Jan	4.00 pm - 6.30 pm ALL	Doping of Semiconductors	Lecture 3	LT 4 at HCI
Week 3 (26 Jan - 30 Jan 2026)	3.5 hours	Mon 26 Jan	3.30 pm - 7.00 pm Lab group L1	Basic Hands-on with Laboratory Equipment	Laboratory 1	NTU Venue: Electronics II Room: S2-B4a-04
	3.5 hours	Tue 27 Jan	3.30 pm - 7.00 pm Lab group L2	Basic Hands-on with Laboratory Equipment	Laboratory 1	NTU Venue: Electronics II Room: S2-B4a-04
	3.5 hours	Wed 28 Jan	3.30 pm - 7.00 pm Lab group L3	Basic Hands-on with Laboratory Equipment	Laboratory 1	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 29 Jan	4.00 pm - 6.30 pm ALL	Semiconductor in Equilibrium	Lecture 4	LT 4 at HCI
	3.5 hours	Fri 30 Jan	3.30 pm - 7.00 pm Lab group L4	Basic Hands-on with Laboratory Equipment	Laboratory 1	NTU Venue: Electronics II Room: S2-B4a-04

H3 WK No.	Duration	Day/ Date	Timings/ Groupings	Lesson Topic	Nature of Lesson (Lecture/Tutorial)	Venue
Week 4 (2 Feb – 6 Feb 2026)	2 hours	Mon 2 Feb	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 2	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 3 Feb	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 2	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2.5 hours	Thu 5 Feb	4.00 pm - 6.30 pm ALL	Semiconductor in Equilibrium Carrier Transport	Lecture 5	LT 4 at HCI
Week 5 (9 Feb – 13 Feb 2026)	2 hours	Mon 9 Feb	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 3	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 10 Feb	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 3	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2.5 hours	Thu 12 Feb	4.00 pm - 6.30 pm ALL	Carrier Transport Characterizations	Lecture 6	LT 4 at HCI
Week 6 (16 Feb - 20 Feb 2026)	One Week Break (16 Feb – 20 Feb 2026) Chinese New Year on 17 & 18 Feb 2026					
Week 7 (23 Feb - 27 Feb 2026)	2 hours	Mon 23 Feb	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 4	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 24 Feb	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 4	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	3.5 hours	Wed 25 Feb	3.30 pm - 7.00 pm Lab group L1	L2003A – Semiconductor Parameter Measurements	Laboratory 2	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 26 Feb	4.00 pm - 6.30 pm ALL	Non-equilibrium Excess Carrier	Lecture 7	LT 4 at HCI
	3.5 hours	Fri 27 Feb	3.30 pm - 7.00 pm Lab group L2	L2003A – Semiconductor Parameter Measurements	Laboratory 2	NTU Venue: Electronics II Room: S2-B4a-04

H3 WK No.	Duration	Day/ Date	Timings/ Groupings	Lesson Topic	Nature of Lesson (Lecture/Tutorial)	Venue
Week 8 (2 Mar - 6 Mar 2026)	2 hours	Mon 2 Mar	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 5	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 3 Mar	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 5	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	3.5 hours	Wed 4 Mar	3.30 pm - 7.00 pm Lab group L3	L2003A – Semiconductor Parameter Measurements	Laboratory 2	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 5 Mar	4.00 pm - 6.30 pm ALL	PN Junction	Lecture 8	LT 4 at HCI
	3.5 hours	Fri 6 Mar	3.30 pm - 7.00 pm Lab group L4	L2003A – Semiconductor Parameter Measurements	Laboratory 2	NTU Venue: Electronics II Room: S2-B4a-04
Week 9 (9 Mar – 13 Mar 2026)	2 hours	Mon 9 Mar	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 6	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 10 Mar	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 6	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2.5 hours	Thu 12 Mar	4.00 pm - 6.30 pm ALL	PN Junction	Lecture 9	LT 4 at HCI
Week 10 (16 Mar - 20 Mar 2026)	One Week Break (16 Mar - 20 Mar 2026)					
Week 11 (23 Mar – 27 Mar 2026)	2 hours	Tue 24 Mar	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 7	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2 hours	Wed 25 Mar	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 7	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2.5 hours	Thu 26 Mar	4.00 pm - 6.30 pm ALL	PN Junction	Lecture 10	LT 4 at HCI

H3 WK No.	Duration	Day/ Date	Timings/ Groupings	Lesson Topic	Nature of Lesson (Lecture/Tutorial)	Venue
Week 12 (30 Mar – 3 Apr 2026)	1 hour	Tue 31 Mar	3.00 pm - 4.00 pm Tutorial group T1, T2		Tutorial 8	B301 and B302 at HCI
			4.00 pm - 5.00 pm Tutorial group T3, T4			
	1 hour		5.00 pm - 7.00 pm ALL		TEST 1 (1 hour)	LT 4 at HCI
	3.5 hours	Wed 1 Apr	3.30 pm - 7.00 pm Lab group L1	L2003B - PN Junction Devices	Laboratory 3	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 2 Apr	4.00 pm - 6.30 pm ALL	Metal-Semiconductor Contacts	Lecture 11	LT 4 at HCI
Week 13 (6 Apr - 10 Apr 2026)	2 hours	Mon 6 Apr	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 9	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 7 Apr	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 9	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	3.5 hrs	Wed 8 Apr	3.30 pm - 7.00 pm Lab group L2	L2003B - PN Junction Devices	Laboratory 3	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 9 Apr	4.00 pm - 6.30 pm ALL	Metal-Semiconductor Contacts	Lecture 12	LT 4 at HCI
	3.5 hours	Fri 10 Apr	3.30 pm - 7.00 pm Lab group L3	L2003B - PN Junction Devices	Laboratory 3	NTU Venue: Electronics II Room: S2-B4a-04
Week 14 (13 Apr - 17 Apr 2026)	2 hours	Mon 13 Apr	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 10	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 14 Apr	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 10	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	3.5 hrs	Wed 15 Apr	3.30 pm - 7.00 pm Lab group L4	L2003B - PN Junction Devices	Laboratory 3	NTU Venue: Electronics II Room: S2-B4a-04
	2.5 hours	Thu 16 Apr	4.00 pm - 6.30 pm ALL	Light-Emitting Diodes	Lecture 13	LT 4 at HCI

H3 WK No.	Duration	Day/ Date	Timings/ Groupings	Lesson Topic	Nature of Lesson (Lecture/Tutorial)	Venue
Week 15 (20 Apr – 24 Apr 2026)	2 hours	Mon 20 Apr	3.30 pm - 5.30 pm Tutorial group T1		Tutorial 11	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T2			
	2 hours	Tue 21 Apr	3.30 pm - 5.30 pm Tutorial group T3		Tutorial 11	B301 and B302 at HCI
			5.00 pm - 7.00 pm Tutorial group T4			
	2.5 hours	Thu 23 Apr	4.00 pm - 6.30 pm ALL	Junction Photodetectors	Lecture 14	LT 4 at HCI
Week 16 (27 Apr – 1 May 2026)	1 hour	Tue 28 Apr	3.00 pm - 4.00 pm Tutorial group T1, T2		Tutorial 12	B301 and B302 at HCI
			4.00 pm - 5.00 pm Tutorial group T3, T4			
	1 hour	Tue 28 Apr	5.00 pm – 7.00 pm ALL		TEST 2 (1 hour)	LT 4 at HCI
Week 17 (4 May - 8 May 2026)	Study Week (4 May - 15 May 2026)					
Week 18 (11 May - 15 May 2026)						
Week 19 (18 May - 22 May 2026)	2.5 hours	Tue 19 May	1.30 pm – 4.00 pm ALL	NTU-H3 Written Examination	EXAM (2.5 hours)	NTU Venue: Hall C (N2-B2C-12, North Spine)

Three Laboratory Experiments:

- Laboratory 1 - BASIC HANDS-ON WITH LABORATORY EQUIPMENT
- Laboratory 2 - SEMICONDUCTOR PARAMETER MEASUREMENTS
- Laboratory 3 - PN JUNCTION DEVICES

Group	Day/Date	Time	Experiment No.
Group 1	Mon, 26 Jan 2026	3.30 pm – 7.00 pm	Laboratory 1
	Wed, 25 Feb 2026	3.30 pm – 7.00 pm	Laboratory 2
	Wed, 1 Apr 2026	3.30 pm – 7.00 pm	Laboratory 3
Group 2	Tue, 27 Jan 2026	3.30 pm – 7.00 pm	Laboratory 1
	Fri, 27 Feb 2026	3.30 pm – 7.00 pm	Laboratory 2
	Wed, 8 Apr 2026	3.30 pm – 7.00 pm	Laboratory 3
Group 3	Wed, 28 Jan 2026	3.30 pm – 7.00 pm	Laboratory 1
	Wed, 4 Mar 2026	3.30 pm – 7.00 pm	Laboratory 2
	Fri, 10 Apr 2026	3.30 pm – 7.00 pm	Laboratory 3
Group 4	Fri, 30 Jan 2026	3.30 pm – 7.00 pm	Laboratory 1
	Fri, 6 Mar 2026	3.30 pm – 7.00 pm	Laboratory 2
	Wed, 15 Apr 2026	3.30 pm – 7.00 pm	Laboratory 3

Comments

All classes are in HCI, except for the three laboratory experiments which will be conducted in NTU.

Tests will be conducted in HCI, while the final examination will be conducted in NTU.

There will only be one Lecture Group, four Tutorial Groups (T1, T2, T3 and T4) and four Laboratory Groups (L1, L2 and L3)

Venue

HCI	
Lecture	- LT4 at HCI
Tutorial	- B301 and B302 at HCI
Test	- LT4 at HCI

NTU	
Laboratory 1/2/3	- Electronics II (S2-B4a-04)
Exam	- Hall C (N2-B2C-12, North Spine)

2026 Public Holidays:

Term I	New Year's Day	Thu 1 Jan 2026
	Chinese New Year	Tue 17 Feb 2026
		Wed 18 Feb 2026
Term II	Hari Raya Puasa	Sat 21 Mar 2026 *
	Good Friday	Fri 3 Apr 2026
	Labour Day	Fri 1 May 2026

* Subject to further confirmation by MOM as stated in the MOE School Calendar. If Saturday, 21 March 2026 is confirmed to be a Public Holiday, Monday, 23 March 2026 will be a designated day off-in-lieu for schools