

## Singapore IOI 2017 Training Schedule

Session	Date / Time	Day	Venue	Topic	Key Concepts	Remarks
1	27 May - 13 Jun	Sat - Tue (+2)	Home	Online Contest 1	5 hour contest Problems from other olympiads	Individual Timer
2	3 - 15 Jun	Sat - Thu (+1)	Home	Online Contest 2	5 hour contest Problems from other olympiads	Individual Timer
3	12 Jun 0930 - 1730	Mon	ICPC Lab	Introduction Competition Strategies	Linux environment What to expect at IOI	Introduction with Team Leader and Dep Leader Familiarise with ICPC Lab
4	14 Jun 0930 - 1730	Wed	ICPC Lab	DP I	State shuffling Common non-classic DPs	Contest 1 Analysis
5	16 Jun 0930 - 1730	Fri	ICPC Lab	DS I	Sqrt decomposition (Buckets) UFDS Sparse Table	Contest 2 Analysis Memorise how to code!
6	17 - 18 Jun	Sat - Sun	Home	Online Contest 3	5 hour contest Problems from other olympiads	Individual Timer (or IPSC 2017, if still ongoing)
7	19 Jun 0930 - 1730	Mon	ICPC Lab	Greedy I	Greedy Proving Techniques	Contest 3 Analysis
8	21 Jun 0930 - 1730	Wed	ICPC Lab	Graph I	Searches Meet in the Middle	
9	22 - 23 Jun	Thu - Fri	Home	Online Contest 4	5 hour contest Problems from other olympiads	Individual Timer
10	24 Jun 0930 - 1730	Sat	ICPC Lab	Math	Primes Modular Arithmetic Ad-hoc math theorems	Wei Liang Guest Lecture 26 Jun: Hari Raya in Lieu
11	27 Jun 0930 - 1730	Tue	ICPC Lab	DS II	Fenwick Tree Segment Tree	Contest 4 Analysis Memorize how to code!
12	28 Jun 0930 - 1730	Wed	ICPC Lab	Graph II	MST Special Graphs Graph Modelling	
13	30 Jun 0930 - 1730	Fri	ICPC Lab	Graph III	SCC Bipartite Matching Max Flow (Exposure)	1 Jul: SMO Open Round 2
14	3 Jul 0930 - 1730	Mon	ICPC Lab	Graph IV	Lowest Common Ancestor Set Merging & HLD DFS/SP Spanning Tree	
15	4 Jul 0930 - 1730	Tue	ICPC Lab	DP II	DP DAG duality DP on Tree Subset DP	
16	6 Jul 0930 - 1730	Thu	ICPC Lab	DP III	DP Speedups	
17	7 Jul 0930 - 1730	Fri	ICPC Lab	Implementation	C++11 Tips and tricks Policy Based Data Structure	
18	8 Jul 0930 - 1730	Sat	ICPC Lab	Greedy II	Ad-Hoc Greedy Algorithms	
19	10 Jul 0930 - 1730	Mon	ICPC Lab	String	Manacher Trie Suffix Array	
20	11 Jul 0930 - 1730	Tues	ICPC Lab	Team Contest		8 hour Team Contest?
21	13 Jul 0930 - 1730	Thu	ICPC Lab	DS III	Binary Search Tree Link Cut Tree	

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22	15 Jul 0930 - 1730	Sat	ICPC Lab	Geometry	Convex Hull Rotating Calipers	
23	17 Jul 0930 - 1730	Mon	ICPC Lab	Output Only Information Theory	Classification Compression	
24	18 Jul 0930 - 1730	Tues	ICPC Lab	DS IV	Heaps	Exposure
25	20 Jul 0930 - 1730	Thu	ICPC Lab	Be-a-problem-setter Contest		Problems to be set by IOI 2017 team members for each other
26	21 Jul 1200 - 1730	Fri	ICPC Lab	Individual On-site Contest	5 hour contest <i>Team Lunch/Dinner?</i>	Spend the weekend with family :)
27	24 Jul 1200 - 1730	Mon	ICPC Lab	Mock IOI Day 1	5 hour contest 3 problems	Might extend invitation to other countries' team members
28	25 Jul 1200 - 1730	Tue	ICPC Lab	Mock IOI Day 2	5 hour contest 3 problems	Might extend invitation to other countries' team members
IOI	28 Jul	Fri	Iran	IOI 2017		
IOI	4 Aug	Fri	Iran	End of IOI 2017		