

新加坡国立大学

工业4.0

哈尔滨工业大学（威海）

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三、	9
四、	11

加坡国 大学 业 4.0

(加坡国 大学 业 、学 信、 定 告、优 学员)



一、

主 业 4.0

四 业 命 ，不 合在一 ， 产 大 。企业
在 业 4.0 合到 中， 产品和 务 字化和 型，创
商业 。 业 叠，从 响了公司如何 他们 业务。
于如何在 作和 中使 ，以及 不同 响 ，同
型 。

学员包 主修 学、 、 和 学 大学 ，以及 业
4.0 兴 士 。

加坡国 大
学 介：



加坡国 大学 (NUS)，始创于 1905 ， 历史 久 世 名 大学。
NUS 力于发 为 声 内外 合 学和 。NUS 学和
以具创业 和 为 ，为 向 型 体 入 力。

2021 QS 世 大学 名：世 11 名，亚 1 名；

二、 介

： 共 6 周， 18 。

前五周：

周 1 2 专业 学习；

周 1 1 。

六周： 3 业 ()

2022 07 -2022 09

： 上 (: Zoom)

周学习 分
估 ：

- 学 在 一 作业 : 2 ；
- 学 在 二 作业 : 2 ；
- 学 在 三 作业 : 3 ；
- 学 周在 之外 在 /准备 4 ；

：

完 学员， 以下可 ：

1. 加坡国 大学主办 及 学 官 发 业 书
2. 加坡国 大学 发 学 信
3. 加坡国 大学主办 及 学 发 定 告 (不含学分)
4. 加坡国 大学主办 及 学 官 发 优 学员 (佳 员)



School of Continuing
and Lifelong Education

CERTIFICATE OF COMPLETION

This is to certify that

FULL NAME

has successfully completed the online course on

Programme Name

on 27-August-2021 · 23 hours



Signatory
Dean
NUS SCALE

Serial No.: *****

业 ()

13 September 2021

To whom it may concern,

It is my pleasure to confirm that **Full Name** has completed the Programme Name on 27 August 2021. The online programme was hosted by the School of Continuing and Lifelong Education in collaboration with SCHOOL/FACULTY NAME, National University of Singapore.

This programme helps university students from China foster professional skills and knowledge in TOPIC from the perspective of evidence-based decision-making used to support justice and social welfare. It aims to cultivate innovative consciousness of legal research and to propose relevant solutions to some basic legal and public policy problems. It involves a mix of thematic discussions and short practical sessions.

During the programme, this student fully participated in the online courses, demonstrating competencies in the areas discussed. (Please refer to Annex A for more information.) The student was a member of a team who presented a final project applying useful ideas and insights on the future of innovation and used the key concepts learned in the courses.

We wish the student all the best for the future.

Yours Sincerely,

SCHOOL/FACULTY NAME

Teacher, Faculty of TOPIC programme
Hosted by School of Continuing and Lifelong Education in collaboration with
SCHOOL/FACULTY NAME, National University of Singapore

Annex A

Programme Name: TOPIC

Programme Dates: 18 July 2021 - 17 August 2021 (23 contact hours)

Hosted Online by: School of Continuing and Lifelong Education, National University of Singapore

Full Name has successfully completed the online programme which comprise a series of lectures and discussions, as well as an individual assessment and team project covering difference between XXX and XXX, formal and Informal mechanisms of dispute resolution, and emerging challenges of lawmakers and public policy makers given the demographic transition, urbanisation and other mega trends in Asia.

Group Presentation
Group Assignment

Distinction
Distinction

Overall Grade:

DISTINCTION

A fail is given when the participant has not met the programme's objectives. A participant missed to attend all courses, to show enough effort, or to achieve both academic and teamwork sessions.

A pass is given when the participant has met the objectives and reach expected outcomes. The participant has completed the whole programme, submitted projects in due time and showed sufficient understanding of each topic.

A merit is awarded when the participant has fully participated in the course, in academic and teamwork sessions. The participant has taken part in a team project and has contributed to the presentation of the project.

A distinction is awarded when a participant has taken a leading role in the course, has been interactive and has demonstrated a high capacity to contribute to the course, to converse in English. This is a special award for outstanding performance and encouragement to others.

This programme was delivered in English online with 23 academic hours.

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8 College Avenue West, #02-16 Education Resource Centre, Singapore 138608
scale.nus.edu.sg / ask.scale@nus.edu.sg / +65 6601 8888
Company Registration No: 200504346E

定 告 ()

13 September 2021,

To whom it may concern,

COMMENDATION LETTER

The School of Continuing and Lifelong Education is pleased to confirm that **Full Name** participated in the **TOPIC Programme** hosted by the National University of Singapore, and which was completed on **27 August 2021**, and emerged as a contributing member of the winning team in the **FINAL PRESENTATION** competition which took place during the period of the programme.

The student demonstrated excellent teamwork, determination and commitment to the task assigned throughout the programme.

We wish the student very best in any future endeavours.

Yours Sincerely,

Instructor
SCHOOL/FACULTY

Teaching faculty of Topic programme
Hosted by School of Continuing and Lifelong Education in collaboration with
SCHOOL/FACULTY, National University of Singapore

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1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 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2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 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2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 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专业... 个人作业... 各位同学... 作业... 型... 分...
 , 在六... 学... 同学... 习... 丰... , 包...
 品和... 化、... 值... 分... 器人... 动化... 。
 地... 位... 立同学... 够...
 堂学习内... 。

了周专业与上专业学... , 安了...
 助, 为... 同学... 后... 。如... 同学们在... 个... 到...
 , 在个人作业... 业任务准备中... 到任何困... , 助... 会...
 位同学们... 况, ... 一... , 助... 位同学... 决... 在学习... 中...
 到... 。助... 在学习... 中也... 到了同学们... 大... 助... ,
 , 使... 位同学... 够在... 中... 地... 学习, 在... 到...
 。

- 堂到 (个人)
- 作业 1 (Assignment 1) : 二 前 交 PPT, 占 25%;
- 作业 2 (Assignment 2) : 四 前 交 PPT, 占 25%;
- 作业 3 (Assignment 3) : 业 , 占 50%

3542 元/人 (哈 业大学 (威) 假 别定制团价)

团人数 48 人

后勤 务 备一名专 主任, 全 协 学 学习 况;
 信 ;
 协助学 上 台 件;
 协助 发 ;
 学 学习 。

三、

- 1: **Assoc. Prof. P. G. Goh**
 -- 加坡国 大学, 商学 副
- : - Prof. Goh 加坡国 大学商学 副 。在 之前, 他在亚

一，2015 二)。

- Prof. Goh 在 团 任商业副 ，他在 2014 助 团 了一个 业务 —— 基 务 ， 了其在 南 产分 ，同 任其在 南全 子公司 。2013 ，他 Batamindo 和仓储 人 公司 了东 商业咨 事会 发 东 商业增 奖(SME)。同 Prof Goh 国 商会 (JCI) 发 2012 出 (TOYP) 商业和创业 优 奖。

2: **Assoc. Prof. P. Vadakkepat**

-- 加坡国 大学, 学 子与 副

- :
- Prof. Vadakkepat 国 器人 协会 创始人 书 (www.fira.net), 前 协会 书 。他 印 Vijyana Bharathi 发 “ 发 ” (www.ignitingminds.org) 囊团 员之一, 在 学 传 , 出固 。
 - Prof. Vadakkepat 俭创 刊 创始 (http://www.jfrugal.com), FIRA 器人世 和 2005 加坡大会 主 , 他 在 加坡和 加 任创业型初创企业“Robhatah Robotic Solutions” 创始人兼 事。
 - Prof. Cadakkepat 人 器人 册 。他 国 人 器 人 副主 。他 人 器人和 器人 多 国 奖 。
 - Prof. Vadakkepae 印 业 合会 CII 国家 器人委员会 员, 以 及 IEEE(国, 2005) 员。2005 , 他 为 IEEE 加坡分 会 书。他 在 2001-2002 任 IEEE 亚太地区 动协 员。 他也 印 子和 信 协会(IETE)和 FIRA 员。

3: **Assoc. Prof. B. Sikdar**

--副 () 及地区主任 (及)

-- 加坡国 大学, 学 子与 副

- :
- 国 伊 伦 勒 学 博士学位 (2001)
 - 坎 印 学 士学位 (1998)
 - 印 东北 大学 子和 信 学士学位 (1996)
 - Dr. Sikdar 兴 包 MAC 协 , 传 协 , 安全 和 。 他 到了 国国家 学基 会、 国国 划

(DARPA)、公司和 WiMAX 坛 助。他 分别 Eta Kappa Nu 和 Tau Beta Pi 员, 且从 2007 到 2012 任 IEEE 学 副 。

--以上 以 为参 , 具体安 会 加坡国 大学主办 、 个人 况 安 。

四:

周	内 容
一周 (2)	<p>专业 (1): 业 4.0 I</p> <ul style="list-style-type: none"> 业 4.0 和 创 什么 业 4.0? 业 4.0 在制 与供 中
一周 (1)	<p>(1): 什么 ?</p>
二周 (2)	<p>专业 (2): 业 4.0 II</p> <ul style="list-style-type: none"> 产品和 务 字化 价值 分 <p>个人作业#01</p> <p>学 以 分 产 作 务 作 , 制定 , 定 善 关 , 以及如何利 善公司 。各 他们 发 交 。</p>
二周 (1)	<p>(2): 完 作业 1 (售卖业务), Q&A</p>
三周 (2)	<p>专业 (3): 器人与 动化 I</p> <ul style="list-style-type: none"> 动 主 信

	<ul style="list-style-type: none"> 字劳动
三周 (1)	<p>(3)：专业 (3) 中 关</p>
四周 (2)	<p>专业 (4)： 器人与 动化 II</p> <ul style="list-style-type: none"> 业 4.0 字分 业 创 和可 发 <p>个人作业#02</p> <p>学 分 分 器人和/ 例，可以 如何使 器人和/ 善公司 。各 他们 发 交 。</p>
四周 (1)	<p>(4)：完 作业 2, Q&A</p>
五周 (2)	<p>专业 (5)：</p> <ul style="list-style-type: none"> 传 器与 动器 互 人 和优化
五周 (1)	<p>(5)：业 关 及 ， Q&A</p>
六周 (3)	<p>： 字化 ——利</p> <p>学 们 以 为单位创作一份如何利 善 作 专 告。 个 合 学，介 他们 一家公司，以及 公司如何使 业 4.0 其 和 。各 他们 发 交 。</p>

备：

- 以上 为 ，学员 在 定 内完 块 学习。
- 以上 安 以六周 为参 ，具体 会 安 。