

**AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)  
WITH CN YANG SCHOLARS PROGRAMME  
(FIRST YEAR ADMISSION)**

Last Updated : 28-Oct-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	School Core	CNYS-PCore	MPE	CC	FC	BDE	Total AU
1	13	27	0	5	0	0	45
2	20	10	0	5	3	3	41
3	22	0	0	3	5	0	30
4	12	0	3	0	0	5	20
<b>Total</b>	<b>67</b>	<b>37</b>	<b>3</b>	<b>13</b>	<b>8</b>	<b>8</b>	<b>136</b>

YEAR 1 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY1001	Cell	CNY-Core	3	CNYS-PCourses	
CY1101	Molecule	CNY-Core	4		
CY1308	Physics	CNY-Core	3		
CY1500	Introduction to Research	CNY-Core	2		
CY1601	Mathematics I	CNY-Core	4		
CV1011	Mechanics of Materials	C	4		
CC0002	Navigating the Digital World	CC	2		
			<b>22</b>		

YEAR 1 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY1007	Living with Climate Change	CNY-Core	3	CNYS-PCourses	
CY1602	Mathematics II	CNY-Core	4		
CV1013	Civil Engineering Materials	C	3		
CV1014	Introduction To Computational Thinking	C	3		
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1		
EG1001	Engineers In Society	C	2		
CC0005	Healthy Living & Wellbeing	CC	3		
			<b>19</b>		

YEAR 1 SPECIAL SEMESTER					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY2003	Research Attachment 3	CNY-Core	4	CNYS-PCourse	
	Overseas Learning Trip				
			<b>4</b>		

YEAR 2 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY0002	Ethics	CNY-Core	3	CNYS-PCourses	
CY2001	Research Attachment 1	CNY-Core	2		
CY1307	Quantum	BDE	3	Optional, may replace with other BDE	
CV1012	Fluid Mechanics	C	3		
CV2011	Structural Analysis I	C	3	CV1011	
CV2013	Engineering Geology & Soil Mechanics	C	3		
CV2711	Civil Engineering Laboratory A	C	1		
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014	
			<b>21</b>		

YEAR 2 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYS-PCourses	
CY2001	Research Attachment 1	CNY-Core	2		
CV2012	Structural Analysis II	C	3	CV2011	
CV2014	Geotechnical Engineering	C	3	CV2013	
CV2020	Water Resources Engineering	C	3	CV1012	
CV2712	Civil Engineering Laboratory B	C	1		
CC0007	Science & Technology for Humanity	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		
			<b>20</b>		

YEAR 3 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CV3011	Reinforced Concrete Design	C	3	CV2011	
CV3013	Foundation Engineering	C	3	CV2013 & CV2014	
CV3014	Transportation Engineering	C	3		
CV3017	Environmental Engineering	C	2	CV1012	
MH2814	Probability & Statistics	C	3	MH1810	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
			<b>17</b>		

YEAR 3 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CV4211	CNYS-PCore Final Year Project	C	8	Year 4 Standing CNYS-PCourse	
			<b>8</b>		

YEAR 3 SPECIAL SEMESTER					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CV3915	Professional Attachment	FC	5	Year 3 standing & completed at least 4 semesters of study	
			<b>5</b>		

YEAR 4 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CV4012	Project Planning & Management	C	2	Year 4 Standing	
CV4711	Seminars & Site Visits	C	1		
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus	
	Broadening & Deepening Elective 1	BDE	3		
	Broadening & Deepening Elective 2	BDE	2		
			<b>11</b>		

YEAR 4 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CV3012	Steel Design	C	3	CV2011	
CV3016	Construction Technology & Processes	C	3		
CV4912	Integrated Design Project	C	3	Year 4 Standing	
			<b>9</b>		

Total AU for Graduation: **136**