



CHA DIGA H C LLEGE FA CHI EC E  
EC CHA DIGA H



**EME E II**

**b ct v** o v op an un r stan n o t t or s an pr ncp s o rban D s nwt r sp ct to t stor c o r ncty

| Cours s | Cours no | ub ct | Hours p r w<br>L D | Ass ss nt |
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|---------|----------|-------|--------------------|-----------|



**st r IV**

**b ct v** o appyt now an npr voust r s st rs

| <b>Cours s</b> | <b>Cours o</b> | <b>ub ct</b> | <b>Hours p r w</b> | <b>Ass ss nt</b>     |
|----------------|----------------|--------------|--------------------|----------------------|
|                |                |              | L R D              | Int rna Exa Jury ota |

st r I

Arc t ctura D s n tud o usta nab D s n

M Arc I







- Low n r ybu n an asonry at ras
- L cyc analys
- Z ro Carbon Footpr nt Bu n

**I I Gr n construct on and nv ron nta qua ty ass ss nt**

- Contro n t wat r cyc
- pt zn construct on
- t ana nt
- Environ nta ana nt o bu n s
- Cas stu sw c oo at t nv ron nta approac an r n wab n r y

**► r nc s**

|   |   |   |
|---|---|---|
|   | Eco s n A Manua or Eco o ca s n by K n Y an           | 2 |
| 2 | Eco ous A s n Gu Es v r Arc t ctura r ss by u r oa ta | 2 |
|   | Gr n Bu n Construct on by o as E G av n c             | 2 |

st r I

Cultura Ant ropo o y

M Arc IC

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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| tud o                  | L ctur | utor a | D | Int rna   | Exa | Jury | ota |
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**b ct v s**

- o un rstan t r atons p b tw n soc ty an t a n o t bu t nvron nt
- o un rstan p no no o y an t ro o ann







st r I

**H stor c Bu d n Mat r a s and t r u c t u r a y s t . s M Arc I EL**

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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**b ct v**

s cours prov s an ntro uction to t practca an t c nca asp cts o t  
 t o ca stu yo storc bu n syst s an r at cons rvaton t c nqu s s  
 ncu s ta so t c aract rzaton an b avora asp cts o at ras structura  
 p ror anc o storc bu n s t roraton proc ss s an cons rvaton  
 nt rv nt ons

**Cours Cont nt**

**I I**

- ra tona bu n at ras us n ln a ro pr storc t st at Eart  
cay ston brct b r ba boo ron ta san ass
- Mat ras us n structura non structura an coratv app cat ons  
ortars r n rs pants an past rs a tv san stab z rs
- Cat orzaton o at ras as or anc an nor anc xtur o bot an  
co poun at ras p ysca c ca an c anca prop rt s
- Co onbn n at ras t r prop rt san t c nqu so pr paraton

**I II**

-

- **R** a assurance or condition affects network structures. Can an antinodal network be

### I III

- Introduction to network technology structure and construction systems
- **▀**robustness in networks: utilization, network properties and performance
- Theory of structures and analysis of structural components of networks  
 Load transfer systems, support systems, spanning systems, network structure and WANSS, optical networks and communication systems, optical networks, optical networks

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|   | ► p tbour n E tor  |   |
| 2 | Manta n n an ¶ par n an H stor c Bu n s by Jo n J Cu nan |   |
|   | Mat ras c no o s an ¶ract c n H stor c H r ta tructur s  |   |
|   | Mat ras s or H stor c Bu n Cons rvat on                  | 2 |



st r I

D s a s t r a n d s M a n a g e m e n t o f B u s i n e s s E n v i r o n m e n t M A r c h I E L

| Hours p i |        |        |   | Ass ss nt |     |      |     |
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b ct v

o v a c o p r n s v o v r v w o n o w x s t n b u n s c a n b a a p t a n

- R ab tat on R construct on an R cov ry R construct on an R ab tat on as a Mans o D v op nt Da a Ass ss nt Post D sast r cts an R a Masur s D sast r R sstant Hous Construct on D a n wt Rsync o o ca ssu s Lon t r Count r D sast r R ann n

### nt III - o cy L a Fra wor

- R o c s n D sast rs ts s n canc approac s ss nt a co pon nts For u atons an coor nat on
- Laws n D sast r R par n ss an R ab tat on Environ nta R ot ct on Act at ona D sast r Mana nt Act 2 t r Inst tut ona L a R o c s
- at ona A nc s at ona D sast r Mana nt C at ona D sast r Mana nt Aut or ty DMA at ona an ot r cv an an non cv an A nc s
- tat an D str ct L v A nc s tat D sast r Mana nt Aut or ty
- DMA D str ct D sast r Mana nt Aut or ty DDMA D sast r
- Mana nt c s at stat v an D str ct v R o o Munc pa t s
- Int rnatonal A nc s nt at ons an ts sp ca z a nc s D FA H AEC Ato c En ry Co ss on nt at ons D sast r Mana nt C tc

### nt I - Infor at cs and Co , un cat on yst , n D sast r

- R o o n or at on t c no o y n D sast rs D sast r ana nt In or at on yst r an zn an ctv ss nat on o n or at on bac or prov n n or at on R o o In or at on ro sast ra ct co unty
- R o o Co un cat on n D sast rs yp so co un cat on n cas o sast rs HAM ra o at t o Con r nc n E ct ron cs vc s ta stu y wt pract ca
- Data co ct on In or at on xtract on ro a s an anays san nt rpr tat on
- Maps Mappn t c nqu s an ts us un ss Mappn as a too or rs ass ss nt an a a va uat on Gl nt cont xt o sast r

- Rot ns n Fun a nta o Rot ns n pator an s nsors a  
nt rpr taton ta a proc ss n crowav r ot s ns n r ot s ns n  
app cat on In an spac pro ra utur sat t s or sast r ana nt
- Gl Intro uct on nton o Gl Gl an ot r nor at on syst aps an  
spata n or at on conc pt o spac an spata ata o a ns o spata n or at on  
syst nts o Gl ar war so twar ata an v war co pon nts o  
Gl n us ana nt ata acqu st on ata nput ata stora r tr va  
ata proc ss n an anays s o n

► **References**

|   |   |     |
|---|---|-----|
|   | Dr Mr na n an y Dsast r Mana nt y In a vt Lt                                | 2   |
| 2 | us ar B attac arya Dsast r c nc an Mana nt McGraw H<br>E ucat on In a vt Lt | 2 2 |

**st r I**

**usta nab Bu d n D s n o c s and u at ons M Arc I EL**

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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**b ct v**

n rstan n t potcs soco t c nca transtons r u aton an po cy conc rn n susta nab ty o t bu t nv ron nt

**Cours Cont nt**

**I I Introdct on**

- Asp cts o susta nab v op nt c at rs s po cy ar t t c no o y
- Econo cs an susta nab ty
- Environ nta aw an r u aton

**I II Environ nta ov rnanc ssu t or s and rat ona s**

- or nv ron nta ov rnanc
- Goba scours or nv ron nta cons rvaton xa p s toc o D caraton 2 Brun tan Co sson Eart u t 2 R I D caraton Conv nton on C at C an an Conv nton on Bo v rsty A n a 2 Eart u t 2 2 C 2 tc
- E r nc v op nt an app caton o y nv ron nta ov rnanc t or s I portant conv nt ons an protoco s rat n to po utants xa p s Montr a 2 protoco R ott r a Conv nton Kyoto 2 protoco C at 2 o cy I 2 CC tc

**I III Environ nta t cs and n t at v s**

- Environ nta t cs an bu n s n oca accountab ty
- Gr n ob c rt caton Int rnatonal or an zaton or stan ar zaton Goba r portn nt at v

- Global Initiatives Menu - various projects Corporate social responsibility Carbon trading
- Finance - Global Environment Facility GEF Green Climate Fund GCF

**International Initiatives on Sustainability**

- Sustainability sessions - climate action seminar
- Environmental education and activities
- Regulatory bodies - BEE MEF
- Sustainability - Business and Rating Systems - GRI IHA IGBC LEED ECBC etc
- Environmental Impact Assessment Matrix

**References**

|   |   |     |
|---|---|-----|
|   | Environmental Sustainability Business Cases and Models by ECD<br>Institution for Economic Cooperation and Development | 2   |
| 2 | Business Sustainability in East Asia - Policy Design and Implementation<br>Chen Jiyong                                | 2   |
|   | Sustainability Business and Infrastructure - Path to a Sustainable Future by Ann<br>Yon Han An                        | 2 2 |
|   | Environmental Management by Kumar and Rangan  | 2   |
|   | GRIHA MAAL  | 2   |
|   | Environmental Conservation Business Case  |     |



nt nt o t stu o s a b to un rstan t curr nt urban s n pract c s nt r  
 urban cont xt by a crt ca appra sa o t soc o cura  
 cono casp cts pub cp rc pt on a ab ty an townscap s ns o pac urban  
 or townscap urban spac s str tscap s bu n or s an aca s pub c art  
 an varous ot r asp cts

**u st d Ex rc s s**

- Ana yt ca stu s o tra t ona an cont porary pub c pac s
- tr t s n
- v r ront v op nt
- rban r n wa
- usta nab urban s an urban r tro tt n n r nt cont xts D s n  
 o ut ons or t cont xts

ot

ro cts c os n ust nc u a const tu nt nts o a pub c urban spac suc  
 as bu n s o var unct ons an own rs ps nt r at an surroun n op n  
 spac s a var ty o act vt s us s unct ons v cu ar an p str an tra c  
 n twor s ut ty n rastructur tc

2 It s ou b poss b to n rat acc ss su c nt ata t at w p r t a n o a  
 co p t t s n proposa wt nt v nt ra

**r nc s**

|   |   |   |
|---|---|---|
|   | l a o t Cty by K v n Lync                                       |   |
| 2 | A Matt rn Lan ua owns Bu n s Construct on by C r stop r A xan r |   |
|   | A w ory o rban D s n by C r stop r A xan r                      |   |
|   | Draw n or rban D s n by Farr y                                  | 2 |
|   | usta nab urban s an b yon r t n n ct s ort utur                 | 2 |

st r II

Conc pts Urban For pac M Arc II C 2

| Hours p i |        |        |   | Ass ss nt |     |      |     |
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**o b j e c t i v e s**

o ntro uc t sub ct o rban D s n ts vocabu ary an r ntat ro Arc t ctur an to a wt t co pon nts o urban s n w c ar pr ary rban For an pac t rou storca r r nc s an cont porary urban spac s

**Cours Cont nt**

**I I Introdct on to t vocabu ary Urban D s n and ts nt rr at ons p to ot rd sc p n s**

- ways o r a n a cty us n t too s o rban D s n n at by K v n Lync
- ay n n us n t a ab ty conc pt t at a s so ct s an parts o ct s or a ab t an ot rs
- L b ty as a too r urban s n xpor nt cty t stu nt s a nat v o or a ar wt n rstan n urban structur
- R a n a Cty 2 t rou Gran xtur o Da ra wt xa p s ro storca vou t on o cty abrcs

**I II rban For and rban pac Int rr at ons ps t at contr but s to ac a n nt Cty**

- rban or spac or various r s o nc osur u an co ort an urban spac psyc o o ca cts n urban spac s n How o s a spac b co a pac



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st r II

Cont . porary C ty as rban Landscap

M Arc II Ç

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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**b ct v**

- o cr at an awar n ss o cont porary cu tur nt post co on a o rn c ty r sutn ro t nt r scp nary partcpaton rawn ro soc o o y stor ranL s s s

- auto ob xposure t c an n abrc o t cont porary cty t c ty  
n ux

### I III

- or s o Cty pann n ar n Cty to a burn o ow by wyn

|  |   |  |
|--|---|--|
|  | Urban Matt by Gordon F. Scott                           |  |
|  | Dating and Love in Great American Cities by Jane Jacobs |  |
|  | Cities in Evolution by Patricia G. Schiller             |  |
|  | Garden City by Ebenezer Howard                          |  |
|  | Highway and the City by Lewis Mumford                   |  |



## I II c no o s'oir' at r and' ast Mana , nt

- at r an wast s G n ra cons ratons R o o wat r n at r cr s s  
caus s Conc pt o wast o wast s n ustra u nts Hazar ous an  
toxc wast s atura cyc s or z ro wast syst s Eco santat on at r  
r sourc s an ana nt R a n wat r runo an roun wat r R a n wat r  
arv st n at r stora an t n v c s

|  |  |
|--|--|
|  | Municipal Administration and Planning Department<br>E12  |
|  | A research on urban planning and administration of the<br>services in the area of the E12 project. |

st r II

Concepts of Mobility and Multi-Modal Transport



**nt III F as b ty**

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st r II

Eco o y and t Bu t Environ nt

M Arc I EL

| Hours p i | Ass ss nt |
|-----------|-----------|
|-----------|-----------|

- Impacto natura an u an n u nc
- Ecosyst at osp r nt ract ons
- rban at s an urban wn patt rn a rosos an ar po ut on

### nt l **usta nab Bu t Environ nt**

- R ona co o yan bo urban s
- usta nab urban pann n an v op nt strat s
- usta nab co unt s
- Cons rvaton sc nc at rnatv v op nt approac s susta nab sty s
- Cas stu s

### ► r nc s



## nt l Data n GI

- GI ata procur nt
- Cr at n aps sy bo o y an vsua zat on a vanc app n app cat ons  
annotat ons w b app n tc
- Co on ana yt ca tas s
- or n wt ata rast r ata CAD ata an y ro o y ata
- ract ca urban s n x rcs s

## ► r nc s

|   |   |   |
|---|---|---|
|   | AutoCAD Arc t ctur 2 Fun a nta s by Moss E s                                  | 2 |
| 2 | Mast r n AutoCAD by G or ura  | 2 |
|   | n rstan n AutoCAD by Fraz r   | 2 |
|   | AutoCAD Arc t ctur 2 Co pr ns v utor a by Jos p<br>Go nb r                    | 2 |
|   | n n about GI G o rap c ln or at on yst rann n or<br>Mana rs by R o r F o nson | 2 |
|   | Mast r n AutoCAD Arc t ctur by au F Aub n                                     | 2 |
|   | GI n Lan an rop rty Mana nt by Mart n Rap s t r yatt                          | 2 |
|   | rban rann n an D v op nt App cat ons o GI by a Easa Yupo<br>C an              | 2 |

st r II

Gl App cat ons n rban D s n

M Arc II EL

| Hours p i <sup>3</sup> |        |        |   | Ass ss nt |     |      |     |
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b ct v s

ob ctv o t cours s to v op an 2 2 r 22 o b 2 E 2 L

- Accession pattern Analyst and Data Exploration
- Master Data Analyst
  - Director of operations
  - Director of operations
  - Director of operations
  - Director of operations

**ntl**

- Data Display and Cartographic representation
  - Map and Choropleth Map
- GIS and Mobile
  - Creation and Execution tools in Mobile
- D Analysis
  - Creation Contours and Aspect
- Conversion of GIS data into various formats
  - Conversion of GIS data into CAD KML or other

**References**

|   |  |   |
|---|--|---|
|   | GIS and Land Use/Property Management by Martin Rapson et al          | 2 |
| 2 | Urban Planning and Development Applications of GIS by Easa Yupo Chan | 2 |

st r III

Arc t ctura D s n tud o Hab tat tud s M Arc III

| Hours p i <sup>3</sup> |        |        |     | Ass ss nt |     |      |     |
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b ct v

- o nab t stu nts to un rstan t ssu s n s n n ab tat nc u n



EME E III

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M Arc III C

| Hours p i <sup>1</sup> |        |        |     | Ass ss nt |     |      |     |
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| tud o                  | L ctur | utor a | ► D | Int rna   | Exa | Jury | ota |

- National Housing Policy 2000 for urban and rural housing - HC or Ban on AID
- Built by awas regulations
- National FV Yojana
- Affordable Housing Policy 2002 - a or ab housing in public private partnership mode - central state governments - involvement of national housing
- Urban Habitat - Sanitation - Housing Policy
- *Pradhan Mantri Awas Yojana, Rajiv Awas Yojana, AMRUT, Indira Awas Yojana*
- Partnership - not possible - success or failure of urban housing
- Urban housing policy in a context of urban participation
- Institute - 2002 - p J2 - 2002a 2In

► r n c s

st r III

D ss rtat on

M Arc III C

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| Hours p r |        |        |   | Ass ss nt |     |      |     |
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b ct v



st r III

rv c s n H s Bu d n s

M Arc III EL

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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**b ct v**

o xa n various s rv c s n r s bu n s an un rstan ow t nt rat on  
o s rv c s can trans at nto an nt nt an n r y c nt syst w c w nab  
susta nab ty o t structur

**Cours Cont nt**



st r III

**Construct on+ ro ct Mana , nt**

**M Arc III EL**

| Hours p i <sup>1</sup> |        |        |   | Ass ss nt |     |      |     |
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| tud o                  | L ctur | utor a | D | Int rna   | Exa | Jury | ota |
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**b ct v**

o ana p op qup nt at ras bu t nvron nt an ass ts as w as ro s  
 ov rs n t c no o ca proc ss s ncu n ana ra asp cts r at tot s n  
 construct on an a nt nanc o bu n s an cv n rastructur

**Cours Cont nt**

**nt I twor c nqu s**

Intro uct on to n twor t c nqu s us o co put ra C M an ER or pann n  
 c u n an contro o construct on wor s Co put rz n twor sc u n an bar  
 c arts Errors n n twor s yp so no san no nu b rn syst s

**nt II Construct on+ ann n**

- ann n o construct on an st act s us n n twor s r parat on o  
 construct on sc u s or obs at ras qup nt abour an bu ts us n  
 C M
- ro ct cost n construct on aw n n rn pro ct ana nt construct on



- Construction equipment to s Equip mts or art construction an application construct construction a r at production
- Construct production an n an pac nt x rs vbratons an t p ratur contro

**nt l**

- nncp so sustanab ty ant nanc ana nt o n n rn ass ts rs p rc pt on an anays s rs ana nt quanttatv rs o n
- Contro on construct on
- Construct on qua ty contro an nsp ct on s n canc o var ab ty n st at on o rs construct on cost contro cras n o n twor s

**References**

|   |  |   |
|---|--|---|
|   | Construct on nncp Mana nt by r vastava                                     |   |
| 2 | Construct on nncp Equip mts an M t o s by nncp ur oy R L                   |   |
|   | Construct on nncp r or anc Contro by twor s by A ua H                      |   |
|   | nncp ro ct ana nt wt CnM nncp by Mo r an nncp p s                          |   |
|   | u nncp Han boo Corporat Gov rnanc R s Mana nt<br>Bus n ss nncp by Ln a p n | 2 |

st r III

→ r n c p s 0 Bu d n Env op D s n

M Arc III EL

| Hours p i <sup>1</sup> |        |        |     | Ass ss nt |     |      |     |
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b ct v

- o un rstan t nor s or bu n nv op ncu n t r a an acoustc p ror anc r qur nts or was roos an wn ows or n r y c nt s n an construct on o bu n s
- o un rstan t n r y p ror anc stan ar s or bu n s n r y au tn an auto aton n varous bu n s rvc s wt nt raton or n r y cons rvaton

Cours Cont nt

nt I Bu d n Env op

- tr ts an bu n s roo zonn ay r o s a s ov r a s a s o ar

2 a Ec 2 u or ~~an~~ 2 a at pro r 2 2 r 2 n t 2 n 2 2

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 op n n s contro s o op n n s ar ow aroun bu n s u ty contro

### I III **Day t n**

▀ rncp s o t trans sson r ct on an absorpton u nat on ay t n  
 conc pts ay t n n t tropcs ay t r qu r nts ay t protractor  
 cacuations strbut on o ay t

### I I

- **Acoust cs** oun nsu at on strat s wrt out oor cont xt ▀ v rb rat on  
 t Ec o os trans sson ▀ ract on tc or varous bu n tyoo s
- **Fal, ad c no o s** nsor bas oub nv op s v nt at aca s  
 s art aca s tc

### ► **r nc s**

|   |   |   |
|---|---|---|
|   | Manua o ropca Hous n an Bu n ▀ art C at c D s n by<br>Ko n sb r r   | 2 |
| 2 | Hous n C at an Co ort by Mart n Evans   |   |
|   | C at c ▀ spons v Arc t ctur A D s n Han boo or En r y E c nt<br>Bu n s by Arv n Krs nan c Ba r ons Yannas zo o ay | 2 |
|   | Han boo on Funct on a ▀ qu r nts o Bu n s t r t an In ustra<br>Bu n s by BI                                       |   |
|   | C at cons ratons n bu n an urban s n by Dav E an M  |   |
|   | Gr n Bu n Mat ras A Gu to ▀ ro uct ct on an p c cat on r<br>E ton   | 2 |
|   | n rstan n Gr n Bu n Mat ras by rac ▀ os ▀ r tacy G ass<br>J ss ca Mc au ton by ▀ oss p G                          | 2 |

st r III

## I II

- **Data Elements** **Basic Model Elements and Structures**
  - Levels Groups
  - Instances
  - Counts and Structures Counts
  - Association Junctions transition to connections over objects transition to
  - Loan Libraries Doors Windows Components
  - Constraints and Dimensions
- **Advanced Models**
  - Floor Plans Rooms Connections Extrusions
  - Tables and Arrays
  - Custom Model Elements as customization
  - Curtain Walls Groups and Mouldings Model Lines tactics walls swatches  
r v a s

## I III **Management Files, Annotations and Materials**

- Creation of topography Import of surveys
- Rendering and Import of CAD and Revit projects
- Material Lines and Coordinates and Materials

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► **References**

|   |   |   |
|---|---|---|
|   | Mast r n vt ura G   | 2 |
| 2 | BIM Han boo A u to Bu n In or at on Mo n by East n C<br>c o z ac s    | 2 |
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