## PANJAB UNIVERSITY, CHANDIGARH

(Estted. under the Panjab University Act VII of 1947-enacted by the Govt. of India)

## **FACULTY OF ARTS**

## **SYLLABI**

**FOR** 

MASTERS IN DISASTER MANAGEMENT (SEMPAoXb6792F09 4] TJE70L68b999T4F6L5

# GUIDELINES FOR CONTINUOUS INTERNAL ASSESSMENT (20%) FOR REGULAR STUDENTS OF MASTERS IN DISASTER MANAGEMENT (SEMESTER SYSTEM)

#### (Effective from the First Year Admissions for the Academic Session 2008-2009)

Let ynd cate as approved the following under ness ode of testing and evaluation including Continuous Internal Assess ent of tudents

Let yna Evaluation

Continuous Assess ent

Continuous Assess ent ay include written ass in lent snap tests participation in discussions in the classifier papers attendance etc.

Volume Internal Assess ent and including the papers attendance etc.

## PANJAB UNIVERSITY, CHANDIGARH

Outlines of tests, syllabi and courses of reading for Masters in Disaster Management (Semester System) for the examination 2011-12.

## **Course Structure**

Semester	Course	Title of the Paper	Max.	Credits
	Code		Marks	
	DM	Concepts Approac es and → eor es of D sasters		
		→ eory		
		Interna Assess ent		
	DM	Funda enta s of D saster Mana e ent		
		✓ L eory		
Ι		Interna Assess ent		
	DM	Natura and Hu an Induced D sasters		
		→ eory		
		Interna Assess ent		
	DM	oe of eIntertena eAsseess& Cento rr c↓I	J. Jak t	е

oe of eIntottena eAssstess& Entro rr, c↓J, ↓ ↓ de, t, e, DM

## **SEMESTER I**

## DM 1: CONCEPTS, APPROACHES AND THEORIES OF DISASTERS

Max. Marks :100

Interna Assess ent

e Hours

**Objectives:** 

Ma n object ves of D saster Mana e ent course are to acquaint the students with the proposed sapproaches and the entropy of the proposed sapproaches and the entropy of the proposed sapproaches are to acquaint the students with the proposed sapproaches and the entropy of the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are to acquaint the students with the proposed sapproaches are the students with the student

## **UNIT-I**

• Def n t on and Concept of Hazard s u nerab ty and D saster

#### **UNIT II**

D saster M t at on Hazard Assess ent u nerab ty Assess ent s Assess ent

Protect ve Measures and Pub c Infor at on
D saster Preparedness D saster P an Da a e Inspect on repar and ecovery un cat on and Contro Centers D saster Forecast n procedures Co Pred ct on

### **UNIT III**

D saster e ef ap d Da a e Assess ent earc and escue operat ons Evacuat on and e ter Food and Med ca upp y Mass Med a Covera e e ef A d Mantann Pub, c Order

#### **UNIT IV**

- econstruct on P ann n Mean n and n f cance
- Econo c and oc a e ab tat on

#### **Note:**

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus de student s' à atte pt any parts n about words eac Eac part s a carry ar s tota

A tota of e

#### DM 3: NATURAL AND HUMAN INDUCED DISASTERS

**Objectives** 

Ma n ob ect ves of t s course are to introduce t e students w t t e nature of d sasters w t a v ew to acquaint n t e w t t e r funda enta s

### **UNIT-I**

- C ass f cat on of D sasters Conceptua z n t e nterface between env ron enta de radat on and d sasters
- Natura D sasters I Eart qua es and suna s o can c Erupt ons Lands des and Ava anc es

#### **UNIT-II**

Natura D sasters II Cyc ones Forest f res Drou ts and Desert f cat on F oods

#### **UNIT-III**

v Hu an Induced D sasters I Nuc ear D sasters C e ca D sasters o and ater Po ut on

#### **UNIT-IV**

v Hu an Induced D sasters II G oba war n B o o ca D sasters Ep de cs

#### **Note:**

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus de student s a atte pt any parts n about words eac Eac part s a carry ar s tota ar s

A tota of e t quest ons w be set out of t e w o e sy abus at east fro eac un t  $\rightarrow$  e cand dates w atte pt quest ons se ect n one fro eac un t Eac quest on w carry ar s  $\rightarrow$  ese w be n add t on to t e co pu sory quest on at t e ser a nu ber

Interna assess ent w nc ude wr tten ass n ent snap tests part c pat on n d scuss on n t e c ass ter papers etc as per un vers ty ru es

#### **References:**

A ed a Ift ar Di r n n in o Foo wenty
First Century Pub cations Pat a a

Bryant Edwards Natura Hazards Ca brid e niversity Press K

Carter Nic Disaster Mana e ent As an Develop ent Ban Man a

Centra ater Co ssion - Food At as of India C C New De

Centra ater Co ss on Manua of F ood Forecast n New De

Govern ent of Ind a u nerab ty At as of Ind a New De

Kapur A u nerab e Ind a A Geo rap ca tudy y rrab

#### **Unit-II**

• D saster Mana e ent Geo nfor at cs Perspect ve

• D saster M t at on Hazard Ana ys s and Mapp n s and u nerab ty Assess ent tructura and Non tructura Measures

#### **Unit III**

• D saster preparedness Cont n ency P ann n and Evacuat on Conso dated Preparat on for next D saster

• D saster E er ency Prov s on for earc rescue and F rst A d I ed ate e ef Food ater C ot e ter and Med ca Care Assess ent urvey Econo c da a e Deat to etc

### **Unit IV**

• e ab tat on estorat on of bas c serv ces and funct ons

econstruct on econstruct on of serv ces and on ter prevent ve easures

#### Note:

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus de student s a atte pt any parts n about words eac Eac part s a carry two ar s tota ar s

A tota of e t quest ons w be set out of t e w o e sy abus at east two fro eac un t  $\rightarrow$  e cand dates w atte pt our

## E E E II

## **DM 5: Finance and Insurance in Disaster Management**

Max. Marks : 100

→ eory Paper Interna Assess ent

e Hours

**Objectives:** 

## **Essential Readings:**

C andra Prasanna F nanc a Mana e ent data Mc Graw H t Edition

Hood C and Jones D K C eds A n n D n. Con por r D m
n n CL Press London

Pandey I M F nanc a Mana e ent as Pub s n House t edition

Paraswa a and r s nan P n D r por Oxford n vers ty Press New De

an orne F nanc a Mana e ent Pearson Education t edition

### **Further Readings:**

a n Pardeep and ot ers <u>D saster</u> s <u>educt on n out As a</u> Prent ce Ha of Ind a New De

or d Deve op ent eport <u>Deve op ent and t e Env ron ent</u> Oxford n vers ty Press De

Cuny Freder c <u>D</u> saster and <u>Deve op ent</u> Oxford n vers ty Press En and v n Peter <u>Deve op ent A d and Conf ct</u> n ted Nat ons n vers ty → o yo

#### **Pedagogy**

Funda entas and pract ce of nsurance and financia arran e ents are introduced to students various risional and e entiproducts in the first area and financia arran e ents between the cultura and state Govern ention one side and between the state overnient and the local overnient are explained the students students are as ed to prepare write upsion specific ssues and proble is

#### DM 6 RESEARCH METHODS IN DISASTER MANAGEMENT

D str ut on o ar s

#### Unit I

e ona zat on of Ind a on t e bas s of D sasters Eart qua es Drou ts and F oods

#### **Unit II**

Eart qua es Case stud es Kan ra B u Latur Kutc ttar as
Lands des and Ava anc es Case stud es a on a or r ver bas ns
Cyc ones Case stud es of Coasta areas of Bay of Ben a and Arab an ea

#### **Unit III**

- v Foods and Coud Bursts Case studies a on river basins
- y Drou ts and Desert f cat on v C e ca and Industr a D sasters

#### **Unit IV**

rban D sasters Case tud es of Metropo tan e ons De and Mu ba

#### **Note:**

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus de student s a atte pt any parts n about words eac Eac part s a carry ar s dota ar s

A tota of e t quest ons w be set out of t e w o e sy abus at east fro eac un t \( \text{ } \) e cand dates w atte pt quest ons se ect n one fro eac un t carry n n ne ar s eac \( \text{ } \) ese w be n add t on to t e co pu sory quest on at t e ser a nu ber

Interna assess ent ay nc ude wr tten ass n ent snap tests part c pat on n d scuss on n t e c ass ter papers attendance etc

Le cand dates we be required to carry out practical exercises in the aboratory and subject the practical field erecord for evaluation. Assess the entire of practical record and viva voce we be done by three examiners consist in of internal C a right on of the depart entitle and one additional faculty in the entire of the ecourse Distribution of the examiner of the ecourse Distribution of the examiner of the exa

Kapur A u nerab e Ind a A Geo rap ca tudy of D sasters a e Pub cat ons New De

Kapur A D sast rs n In a tu s o Gr , a t awat Pub cat ons Ja pur

Kasperson J X Kasperson E and Jurner B L ons at s Co par sons o r at n Env ron nts n ted Nat on n vers ty Press J o yo

Paraswa a and rs nan P In a D sast r, port Oxford n vers ty Press
New De

## **Further Readings**

BILHAM — e se s c future of c t es Bu et n of Eart qua e En neer n — pp — B EA OF INDIAN — ANDA D Ind an tandards Cr ter a for Eart qua e es stant Des n of tructures Part I F ft ev s on GO E NMEN OF HIMACHAL P ADE H B u a p e b ayava anub av Bac av aur pay n H nd p a tate Counc for c ence — ec no o y and Env ron ent GO E NMEN OF INDIA — u nerab ty At as of Ind a New De Bu d n Mater a s and — ec no o y Pro ot on Counc M n stry of Hous n & rban Poverty A ev at on

### **Pedagogy**

→ e students s a be exp a ned t e nteract ve re at ons p between d sasters and env ron enta

## **Unit III**

- tate Aut or t es oca roups and co ttees tate D str ct and Loca Leve Mana e ent
- un ty Part c pat on n D saster Mana e ent and s educt on Co

## **Unit IV**

- o e of t e fo ow n n D saster Mana e ent NGO Pr vate Or an zat ons Ar y and Po ce

- Educat ona Inst tut ons

#### **Semester III**

#### **DM- 9: Legal Aspects of Disaster Management**

Max. Marks : 100 eory Paper Interna Assess ent -1, e Hours

## **Objective:**

Man ob ect ve s to a e aware t e students about t e e a syste re ated to d saster ana e ent

## Unit I

- Internat ona Perspect ve of D saster ana e ent and e ated Le a Deve op ent
  o e of Hu an ts n D saster Mana e ent
  Lon → er I p cat ons of D sasters t e ard to Law Lon → er Consequences for t e ct s ev s n t e Mode's of D saster Mana e ent
  → e D saster Mana e ent Act
- An Overvew of Provisions of de Constitution of India to the E plass on

#### **Unit IV**

- I portant sefu tatutes w t Provisions Relevant to D saster Mana e ent
- → e Ato c Ener y Act
- → e Exp os ve ubstance Act
- → e M nes and M nera s e u at on And Deve op ent Act
- C apter I of Factor es Act
- → e eapons Of Mass Destruct on And → er De very yste s Pro b t on Of n awfu Act v t es Act
- → e Essent a s erv ces Ma ntenance Act

### **Note:**

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus - i é student s a atte pt ten quest ons n words eac Eac part s a carry ar s - i ota x ar s

A tota of e t quest ons w be set out of t e w o e sy abus at east fro eac un  $t \rightarrow e$  cand dates w atte pt quest ons se ect n one fro eac un t Eac quest on w carry ar  $s \rightarrow ese$  w be n add t on to t e co pu sory quest on at t e ser a nu ber

Interna assess ent w nc ude wr tten ass n ent snap tests part c pat on n d scuss on n t e c ass ter papers etc as per un vers ty ru es

## **BOOKS RECOMMENDED:**

#### **ESSENTIAL READINGS**

Kanoorayar s nu and Jaya ED D saster Mana e ent and Law

Pandey J N 🔳 e Const tut ona Law of Ind a Centra Law A ency A a abad

Jaswa P Env ron enta Law A a abad Law A ency

Bax pendra Inconven ent Foru and Conven ent Catastrop e → e B opa Case Ind a Inst tute of Law

- → e D saster Mana e ent Act
- → e Ato c Ener y Act
- ∠ e Exp os ve ubstance Act

- → e M nes and M nera s e u at on And Deve op ent Act –
- → e Insect c de Act
- → e Factor es Act
- → e Essent a s erv ces Ma ntenance Act
- Le eapons Of Mass Destruct on And Ler De very ystes Probt on Of nawfu Act v t es Act

### **FURTHER READINGS:**

Bas, PM - e Const tut on of Ind a BA E AC n versa Law Pubs n House

A arwa HO Internat ona Law and Hu an t Centra Law Pub cat on

A exandra Geor e  $rop r \cdot m$   $n \cdot o \cdot n \cdot p \cdot r \cdot r$   $ron \cdot m \cdot r \cdot m$ 

Andrew a te Env ron enta aw Hand boo London Butterwort s

Andrew a te and  $\rightarrow$  Jewe Ed En ron n in rop r r n ion Butterwort's London

Day d a an Ind as Po ut on e u atory tructure and Bac round In or or d Ban Group January

D ane arburton Ed Co un ty and usta nab e Deve op ent Part c pat on n t e future Eart scan Pub cat ons Ltd London

Nor an Dorsen Ed D or n o C Press as n ton D C a ter Laqueur o En o r. rror m n F r C n r Cont nuu New Yor

## **DM-10: PREPAREDNESS AND MITIGATION**

Max. Marks : 100

Pract ca

Interna Assess ent

-↓ e

Hours

Objectives Man object, s to prepar the ending to the state of the stat

**UNIT II** 

#### References

Kap an tan ey and Garr c B Jo n On t e uant tat ve Def n t on of s An O pp C

Coppo a Da on P n ro n ro n ro n ro n Butterwort. He ne ann E sev er Oxford

C ou arton c ard Cont n ency p ann n and u an tar an act on. A rev ew of pract ce No no room or Overseas Deve op ent Institute London

Hart P Heyse L and Bon A New trends n crss ana e ent pract ce and crss ana e ent researc sett n t e a enda o rn o Con in n i n Cri i n n

uarante E L jor Cri ri or in Di r nnin n n in n ir App i in D opin So i D saster esearc Center n vers ty of De aware Newar De aware A

As an Deve op ent Ban D = r + i + i + on + i + n = r + i + Man, a

FURe3 12 Tf 1 w(-2(f3w)TJ ET 1 w 1 w )-18, Manile

## **DM-11: RELIEF, REHABILITATION & RECONSTRUCTION**

 A tota of e t quest ons w be set out of t e w o e sy abus at east two fro eac un t decided a carry n one ar s eac dese w be n add t on to t e co pu sory quest on at ser a nu ber I

Interna assess ent ay no ude wr tten ass n ents snap tests part c pat on n d scuss on n t e c ass ter papers attendance etc

→ e cand dates w be required to carry out practical exercises in the aboratory and subject the practical field for evaluation Assess and of practical record and viva voce with bedone by three examiners consist in of internal C a right on of the department and one additional faculty in the berteach in the course D stribution of an significant record arise and viva voce Examination and significant arise and the practical field in the department of the stripe of the course of the stripe of the course of the stripe of the course of the stripe of the stripe of the course of the stripe of the course of the stripe of the s

## References

Bara at o in on r ion r Con in Di r Overseas Deve op ent Inst tute ODI Hu an tar an Pract ce Networ HPN London

Barenste n J D and P ttet D o r o n r on r on. C rr n r n n n n r n r on r on. C rr n r n n n o n r on r on. C rr n r n n n vers ty of App ed c ences Env ron ent Construct on and Des n Depart ent Inst tute for App ed usta nab ty to t e Bu t Env ron ent w tzer and

C r stop os I  $\rightarrow$  e e us ve w ndow of opportun ty for r s reduct on n post d saster recovery D scuss on Paper for ess on Pro ent on Consort u Foru srn nun o Co or non n D r non p Ban o February

Coppo a D n ro n on o n ro n c apter n ecovery pp . E sev er A sterda

Drabe - E and McEnt re D E er ent p eno ena and u t or an zat ona coord nat on n

#### **DM-12: INTERNSHIP**

Max Mar s eport va oce

Note: — e students are required to under o four wee's interns p and prepare a report — e interns p w be carried out with a lovern lent a ency or NGO — e candidate w spendit site e in at erin the requisite experience and s is necessary for lent site and to not e candidate labeled as colored at each data for site report a so — e BOC of the Depart lent will be an and coordinate with the overnient all ency or NGO.

#### **SEMESTER-IV**

## **DM-13: ROLE OF INTERNATIONAL AGENCIES IN DISASTER MANAGEMENT**

Objective do fa and a rice te students with the role played by the international alences in anale ent of disasters

#### **UNIT I**

- Internat ona a enc es n d saster ana e ent an overv ew
- <u>n ted Nat ons H</u> Co ss oner for efu ees NHC
- n ted Nat ons Popu at on Fund NFPA
- <u>n ted Nat ons</u> ecretary Genera s Adv sory Board on ater & an tat on N GAB
- Off ce for t e Coord nat on of Hu an tar an Affa rs n ted Nat ons OCHA
- Internat ona Co ttee of t e ed Cross
- or d Hea t Or an zat on HO

#### **UNIT II**

• Deta ed stud es of t e ro e p ayed by n ted Nat ons HO and OXFAM n d saster ana e ent

#### **UNIT III**

P ann n and p e entat on of deve op ent ass stance pro ra es for efu ees
 Ma n Concepts and Issues
 P ann n I p e entat on Mon tor n and Eva uat on of suc Pro ra es
 P ann n and Part c patory Deve op ent

#### **UNIT IV**

• Env ron enta eat n e er enc es dur n natura and u an nduced d sasters <u>Prevent on Detect on esponse Preparedness ecovery</u>

#### **Note:**

A co pu sory quest on conta n n s ort answer type quest ons s a be set cover n t e w o e sy abus  $\bot$  é student s a atte pt ten quest ons n words eac Eac part s a carry ar s  $\bot$  ota x ar s

A tota of e t quest ons w be set out of t e w o e sy abus at east fro eac un t de cand dates w atte pt quest ons se ect n one fro eac un t Eac quest on w carry ar s dese w be n add t on to t e co pu sory quest on at t e ser a nu ber

Interna assess ent w nc ude wr tten ass n ent snap tests part c pat on n d scuss on n t e c ass ter papers etc as per un vers ty ru es

## **REFERENCES**

G os GK

Di r n n o APH Pub s n Corporat on New De

r ved P

En op o Di r n n o Jnanada Pra as an New De

or or or d Heat Or an sat on Geneva var ous reports pub s ed onward

## **DM-14: DISSERTATION**

Max u Mar s
For u at on of Pro ect proposa

2. M d ter appra sa of t e pro ect report s a ave two co ponents presentation on pro ect proposa including the research objectives et odo o y and the chapter scheme e after three weeks of assign in the project tite presentation of data analysis and tentative finding sign weeks after the assign in of the project tite. The presentation of the project tite is appraisal of the experimental tentative findings is a sign of the project tite. The presentation of the project tite is appraisal of the experimental tentative findings is a sign of the experimental tentative findings is a sign of the experimental tentative findings is a sign of the experimental tentative findings.

\_