Catalogue of Designs

- ★ Online catalogue for $v \le 20$ of NBDs and Crossover Designs is available.
- Search facility of all designs and designs for some particular value of parameters is provided along with showing the layout of the design.

	gue Of Neighbour Balanced Designs					Catalogue Of Crossover Designs				
	ID	1	1	1	k		ID	v	p	2
Design	1	5	2	2	5	Design	1	3	2	9
)esign	2	5	4	4	5_	Design	2	3	2	6
Design	3	5	5	4	4	Design	3	3	3	6
Design	4	5	20	16	4	Design	4	3	3	6
Design	5	5	20	20	5	Design	5	3	4	6
Design	6	7	3	3	7	Design	6	3	5	3
Design	7	7	6	6	7	Design	7	3	6	3
Design	8	7	7	6	6	Design	8	4	2	16
Design	9	7	42	24	4	Design	9	4	4	4
Design	10	7	42	30	5	Design	10	4	5	4
Design	11	7	42	36	6	Design	11	4	7	4
Design	12	7	42	42	7	Design	12	4	8	4
Design	13	8	4	4	8	Design	13	5	2	25
Design	14	11	5	5	11	Design	14	5	2	10
Design	15	11	10	10	11	Design	15	5	3	20
Design	16	11	22	10	5	Design	16	5	3	10
Design	17	11	11	10	10	Design	17	5	4	20
Design	18	11	110	40	1	Design	18	5	5	10

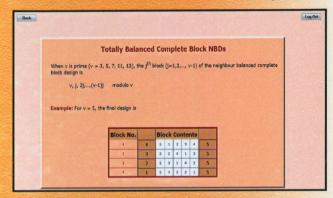
Key Features

- * Web based
- ★ User friendly
- ★ Menu driven
- **★** Compatible with MS-Excel



Online HTML Help

Software provides online HTML help construction of NBDs and Crossover Designs



User Management

- ★ Separate User Account
- ★ New User Registration
- * Change Password
- * Retrieve Forgotten Password

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IASRI/R - 01/2014

Web Generation of **Experimental Designs Balanced for Indirect Effects** of Treatments

ट्रीटमेन्ट्स के अप्रत्यक्ष प्रभावों के लिए परीक्षणात्मक अभिकल्पनाओं का वेब जेनेरेशन

(http://iasri.res.in/webdbie)



Seema laggi Cini Varghese **Eldho Varghese** Anu Sharma

DEVELOPED UNDER THE DEPARTMENT OF SCIENCE AND TECHNOLOGY FUNDED PROJECT (SR/S4/MS: 650/10-1)

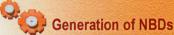


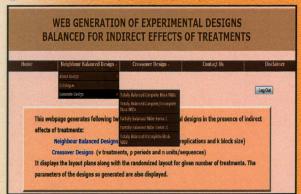


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(2014)

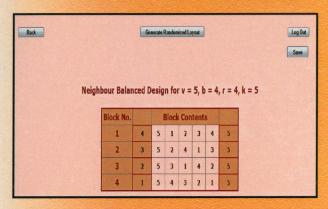
Indirect effects are effects which occur in an experiment due to the units which are adjacent (spatially or temporally) to the unit being observed. Spatial indirect effects arise due to the treatments applied to the adjacent neighbouring units/ plots and the designs incorporating these effects are called Neighbour Balanced Designs (NBDs) whereas temporal indirect effects occur because of the carryover or residual effects in the periods following the periods of their direct application and the designs considering temporal effects are called Crossover Designs. A large number of such designs have been developed in the literature. For ready referencing and potential use of these designs, an online software for generation of randomized layout of these designs is highly desirable. WebDBIE is a web based freely available software solution for generation of NBDs and Crossover Designs using client-server architecture along with an online catalogue of the designs within a permissible range. WebDBIE is accessible any time from arbitrary platforms through internet.





Various input forms have been designed and developed for the generation of the above listed designs.

- ★ The Module on Neighbour Balanced Design generates various classes of Complete/ Incomplete as well as Balanced/Partially Balanced Neighbour Balanced Block Designs (v treatments, b blocks, r replications and k block size) for a given number of treatments along with the parameters.
- ★ User can enter the number of treatments and then click on "Generate" to see the design



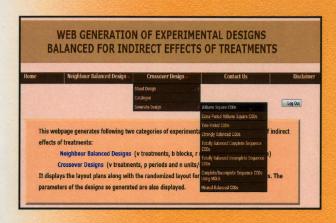
- ★ "Generate Randomized Layout" provides a randomized lay out of the generated design.
- ★ User can get the generated design in MS-Excel format by clicking on "Save" button.





Generation of Crossover Designs

This Module on Crossover Design generates various classes of Complete/ Incomplete as well as Strongly/ Totally Balanced Crossover Designs (v treatments, p periods, and n units/ sequences) for a given number of treatments along with parameters.



★ Following is a Crossover (Williams Square)
Design for v = 5:

