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**INDEX FOR 3.3.1**

3.3.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years (5)

Sr.no.	Title of paper	Name of the author/s	Name of journal	Year of publication
1	Addressing Gender Gap in Playgrounds: An Exploratory Study",	Mahimkar S. & Gokhale V. A.	AJANTA: An International Multidisciplinary Quarterly Research Journal, VII (I), 100-106 (UGC – CARE list)	2018
2	The Theory of Evolution: Architecture of Avasara Academy, Pune.	Smita Dalvi	The Architectural Review, issue 1458, 26-35, February, 2019. (UGC – CARE list, Group A journal)	2019

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**SSR TABLE 3.3.1**

3.3.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years (5)

2018	2019	2020	2021	2022
1	1	0	0	0

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Post Graduate Research  
and UGC Care Journal  
Volume No. 407759

PIMPRI CHINCHWAD EDUCATION TRUST  
MULTI-DISCIPLINARY  
RESEARCH JOURNAL

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2018		
Sr.no.	Title of paper	Name of the author/s
1	Addressing Gender Gap in Playgrounds: An Exploratory Study",	Mahimkar S. & Gokhale V. A.
	Front Page	
	1st Page of document	
	UGC CARE LIST	

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Peer Reviewed Referred  
and UGC Listed Journal  
(Journal No. 40776)

AN INTERNATIONAL  
MULTIDISCIPLINARY  
QUARTERLY RESEARCH JOURNAL  
ISSN 2277-5730

VOLUME - VII, ISSUE - I  
JANUARY - MARCH - 2018  
IMPACT FACTOR / INDEXING  
2017 - 5.2  
[www.sjifactor.com](http://www.sjifactor.com)

# AJANTA

ENGLISH PART - I

Ajanta  
Prakashan



## 14. Addressing Gender Gap in Playgrounds: An Exploratory Study

**Dr. Sudnya Mahimkar\***

Principal, B. R. Harné College of Architecture, At Karav, Vangani, Dist-Thane.

**Dr. V. A. Gokhale**

Professor, Dr. B.N. College of Architecture, Karve Nagar, Pune.

### Abstract

*Sport can be an important tool for social empowerment through the skills and values learned, such as teamwork, negotiation, leadership, communication and respect for others.*

*(United Nations, 2007)*

Participation in active sports has remained exceptionally low by women as compared to men and Sports participation data also supports it whereby the major difference lies in terms of outdoor sports. Outdoor sports participation by women in India has been scarcely explored and researched about. This study endeavours to examine the extent of women's participation in outdoor sports particularly in the spatial framework of playgrounds. The research questions include –

1. What are women's perceptions regarding outdoor sports for maintaining their own good health?
2. To what extent women access outdoor sports facility / playground?

The inquiry includes both quantitative as well as qualitative survey methods. Questionnaire survey for the sample size of 576 respondents included both gender to maintain a balance, neutrality and unbiased approach. Qualitative survey included visual research methods conducted at three playgrounds. The area of study was Mumbai Metropolitan Region. The data collected was analyzed with the statistical analysis software SPSS.

The outcomes reveal that there is an extreme gap between men and women users where women hardly perceived themselves using the playground for the purpose of active sports at any time of the day. It has also been found that the age played a major role in the perceptions as well as actual physical activities in the playgrounds. The study concludes and puts forth the serious



### UGC Approved (old) List of Journals

40776	Ajanta	UGC	Arts & Humanities	AJANTA PRAKASHAN,AURANGABAD	22775730	India
40777	The Voice of Sankara	UGC	Arts & Humanities	Jagadguru Shri Sancaracarya of Kanchi Kamakoti Pitha by Adi Sankara Advaita research Centre, Chennai		India
40778	Behavioural Scientist	UGC	Arts & Humanities	Council of Behavioural Scientists Bal Niwas,Taj Bassi, Agra Scientists Bal Niwas,Taj Bassi,Agra-282001(Bi-Annual Research Journal)	09725911	India
40779	Bhaishajya Jyotisha Manjusha	UGC	Arts & Humanities	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetham, Katwaria Sarai, New Delhi 110 016	23480890	India
40780	Kruti Rakshana	UGC	Arts & Humanities	Director, National Mission for Manuscripts 11, Mansign Road, New Delhi - 110 001	23195304	India
40781	Bharitya Shiksha Shodh Patrika	UGC	Arts & Humanities	Saraswati Kunj Nirala Nagar Lucknow-226020	09707603	India
40783	Brahmavidya- The Adyar Library Bulletin	UGC	Arts & Humanities	Adyar Library and Research Centre, Adyar, Chennai	09722106	India
40784	cikitusi	UGC	Arts & Humanities	Vidya Shri Nyas, Dawood Pur, Uttar Pradesh	09756876	India
40785	Caturanga	UGC	Arts & Humanities	KOLKATA, WB		India
40786	Dhimahi	UGC	Arts & Humanities	Chinmaya International Foundation Shodha Sansthan, Kerala	09763066	India
40787	Eduvogue	UGC	Arts & Humanities	GNE Journal of Reconstruction in Teacher Education Development Foundation of India,GNC Greater Noida-39A,Knowledge Park III-Gautam Buddha Nagar,UP infor@greaternoidacollege.org.	23201916	India
40788	Emerging Trends in Education	UGC	Arts & Humanities	Association for Innovative Education Varanasi (UP) (Referred & Peer Reviewed Biannual Journal)	09768696	India
40789	Ababhas	UGC	Arts & Humanities	KOLKATA, WB		India
40790	Parisheelan	UGC	Arts & Humanities	Suruchi Kala Samiti B-23 /45, Gha-A-S, Nai Barar, Khojwan, Varanasi	09747222	India
40791	Udbodhan	UGC	Arts & Humanities	RKMISSION, BAGBAZAR		India
40792	Universal Review	UGC	Arts & Humanities	SITBS, KOLKATA	22772723	India



2019		
1	The Theory of Evolution: Architecture of Avasara Academy, Pune.	Smita Dalvi
	Full Document	
	UGC CARE LIST	



# The Architectural Review

## The theory of evolution: Avasara Academy, Pune, India, by Case Design

11 FEBRUARY 2019 | BY SMITA DALVI | SCHOOL



For Case Design it was imperative that Avasara Academy be a product of collaboration and iteration, constantly evolving through a process of trial and error

On the valley slopes on the outskirts of the city of Pune in western India, it is the rejection of completeness and permanence, notions of accommodating imprecision, rejection, even trial and error, that have shaped Case Design's Avasara Academy. Based in Mumbai, architects Samuel Barclay and Anne Geenen 'explored the design process through the act of making', relying on 'small samples rather than intensive drawings' and creating a number of mock-ups 'in a dialogue with civil contractors, allowing the details to emerge' through a process of iteration.

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founders Roopa Purushothaman and Joseph Cubas, of how to address the disparity between women and men in the Indian workforce – a school, whose pedagogy is customised to offer high-end education to girls. Their aim was to provide a ‘sanctuary for learning, a home away from home’ for girls from underprivileged households, which could enable them to become leaders and entrepreneurs with a ‘solid working knowledge of India, its people and history’. It is a school that teaches through experimentation- it is fitting, then, that the building process also centred on learning through experimentation.



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The newly formed firm hit the ground running with this, its first major architectural commission, using an approach that was both collaborative and iterative, seeking expertise in a non-hierarchical manner by ‘breaking barriers through trust’. Barclay acknowledges that ‘the role of the architect here is unconventional, but creating the team framework allowed for the collaborators to have their own space and make decisions and interventions within the context and limitations of the project’.

The architects and their collaborators formed a collegium, putting together collective expertise rather than dictating what should be done. Hemali Sawant, a landscape designer from Mumbai, shared experiences with neighbourhood farmers, leading to an understanding of site water management that resulted in the use of gravity-based irrigation systems. Transsolar’s Pratik Raval, a climate

**Plant in Copenhagen, Denmark, by BIG and SLA**

28 FEBRUARY 2019 | BY TOM WILKINSON

**Energiebunker in Hamburg, Germany, by Hegger Hegger Schleiff Architekten**

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**Gasholders in London, UK, by Wilkinson Eyre**

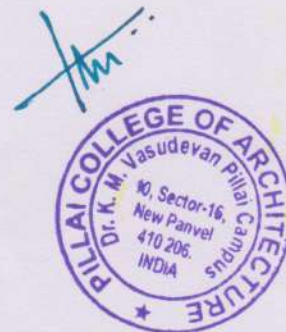
28 FEBRUARY 2019 | BY TOM WILKINSON

**Laurie Baker (1917-2007)**

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**Revisit: Louis Kahn’s Sher-e-Bangla Nagar, Dhaka, Bangladesh**

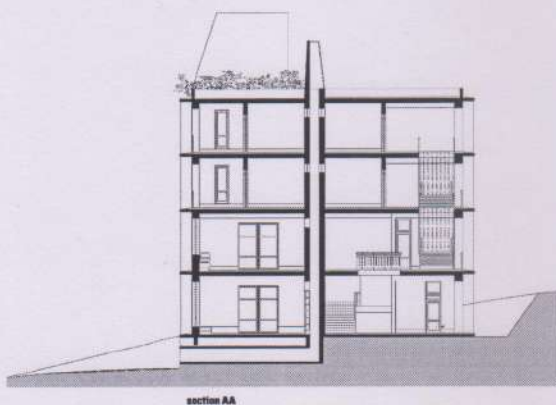
26 NOVEMBER 2019 | BY KAZI KHALEED ASHRAF



providing data that highlighted issues that could be addressed with customised bamboo facades. Coolth tubes, structurally integrated vertical cavities and solar chimneys were designed as induced ventilation systems in each building, lowering interior temperatures by 5-10°C during uncomfortably hot summer months.

## ‘Generous semi-outdoor spaces prevent the building from feeling shut in, while framing excellent views of the surrounding hills’

Working with Malene Bach, an artist from Copenhagen, natural pigments were chosen over industrial paints and coloured the ceilings, leaving all other surfaces *au naturel*, bringing surprise and delight. An aesthetic quality is achieved by retaining the natural colour and textures of the remaining concrete, cement wash, stone, wood and bamboo, all of which harmonise with the surrounding beige-brown hills.



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The six four-storeyed rectangular blocks follow the lie of the undulating hillside, acknowledging contours and seeking the best vistas. Despite being a girls' school, there is no sense of cloistering; quite the reverse, the generous semi-outdoor spaces and verandas prevent the building from feeling shut in, while framing excellent views of the surrounding



inescapable.

Each block is built with the endowment of one donor and, as such, is being built in phases. At the time of my visit, three of the blocks were built and functioning, with the remainder in various stages of completion. The school began its academic functions even as building activity continued.



Source: Case Design

Mock-ups are constructed to trial doorways of marble and timber

Students and classes are everywhere; learning seems to happen even in the atria and on the verandas. Girls of all ages read, talk, work on laptops, sit on stairways and mosaic floors or lounge on the many, work on laptops, sit on stairways and mosaic floors or lounge on the many scattered *charpoy*s - lightweight four-legged Indian bedsteads, woven with colourful chords of recycled cotton sarees wound expertly by traditional craftsmen. In each block, the lower storeys house classrooms, laboratories, a library, administration areas, staff offices and lounges, and kitchen and dining areas; the upper two storeys are reserved for the girls' dormitories. All the buildings are inhabited and lively on the lower two floors during school hours and the upper two afterwards.

Occasional flurries of movement indicate breaks for recess, when everyone seeks out the warmth of the winter sun to eat tiffin before moving on to their next class in subject-dedicated rooms. The students



intimacy with the architecture.

## 'The simple frames allow for both infill and enclosure to emerge as a series of hands-on engagements with the collaborators'

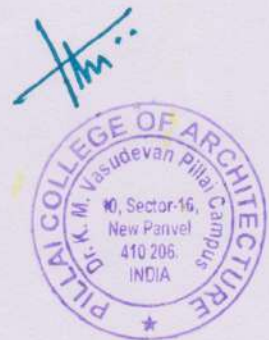
Each block has a simple concrete armature with generous overhangs and a dog-legged staircase that recalls the Domino frame (this is increasingly becoming the de facto vernacular in most parts of developing India). This frame provided malleability and accommodated revisions as the buildings progressed, developing the design as a 'slow process'. There is a refreshing lack of desire to hide electrical or plumbing conduits, or tiny imperfections in the cast concrete, while the simple frames allow for both infill and enclosure to emerge as a series of hands-on engagements with the collaborators, developing architectural elements as prototypes for the school.



Source: Case Design

Design of an open well, on a human palm

These prototypes include variations on bamboo screens for the facade, as well as masonry walls, furniture and light fixtures that evolved in the studio workshop and on site. With a tip of the hat to George Nakashima - whose furniture with signature butterfly joints and unfinished edges adorns the school's communal spaces - the lightly woven screens are placed on the building's



overhangs to provide privacy, reduce glare and give a textural quality to the interior and exterior through a delightful play of shadows, while unifying the architectural scheme. Mock-ups became a means of holding conversations with the contractors and artisans who played a role in evolving the design decisions.

**'If a project is constantly in progress, at what point is it useful to stop and assess it?'**

Recycling and reuse also formed a central theme in the design: the majority of the timber fenestration was recycled from demolished structures that not only reduced costs and extended the life of these elements, but also lent a lived-in feel to a newly constructed building. Each of the differently dimensioned doors and windows were built into the walls individually, requiring a degree of on-site flexibility. The distinctive crazy mosaic paving that appears all over the campus was made with stone pieces sourced from quarry waste from Rajasthan and Gujarat, and inlaid with coloured cement. The laying of the floors is a fast-vanishing technique - not only slow, it is also intuitive and requires a particularly site-sensitive paver.



Barclay acknowledges that lessons learned from the earlier blocks have informed changes to those

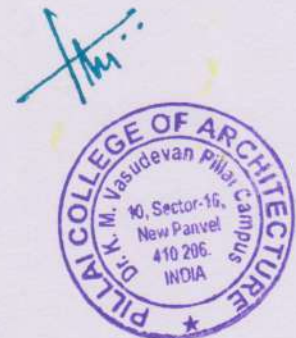
dampness occasionally leads to fungal attacks, so the screens have been modified to withstand this. In future, bamboo may also be cultivated on the grounds itself, providing a ready resource for necessary replacements.

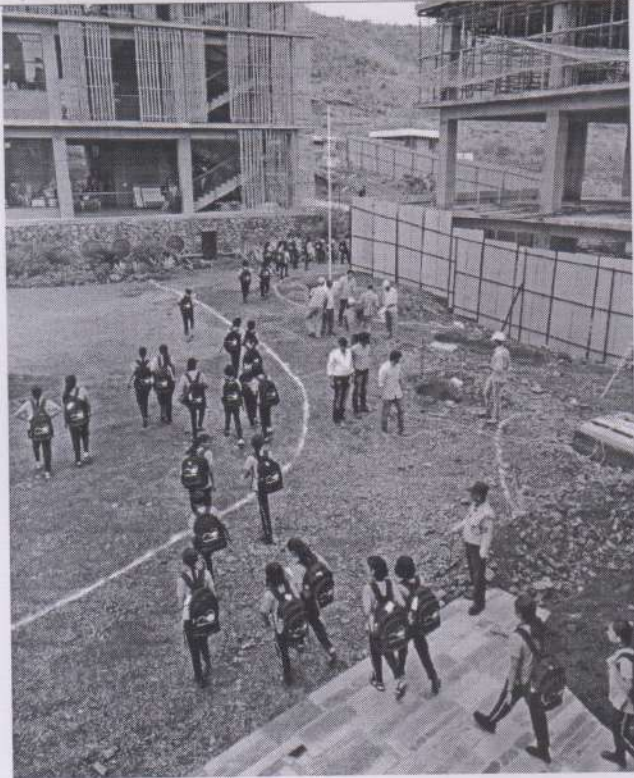


Source: Case Design

**Mosaic paving is formed from waste stone pieces from quarries in Rajasthan and Gujarat**

At Avasara, the architect becomes the orchestrator rather than the sole author, the first among equals in an assemblage of collaborators. As such, this project complicates the assessment of architect as well as architecture: if a project is constantly in progress, at what point is it useful to stop and assess it? This much is certain - while construction is incremental, architects, collaborators, students and faculty are all invested in this transience. As a constant work in progress, the activities of building and landscaping provide invaluable exposure for the students, not only to concepts of sustainability but also to those of acceptance, accommodation and an appreciation of the lived experience.





Source: Case Design

Paving is planned out across the site

Architect: Case Design

Project Team: Samuel Barclay, Anne Geenen, Dhvani Mehta, Shoeb Khan, Ami Mattan, Paul Michelin, Farhaan Bengali, Simone Picano, Chirag Bhagat, Ketaki Raut, Ji Min An, Tofan Rafati

Photographs: Ariel Huber unless otherwise stated

This piece is featured in the AR February 2019 Failure issue - [click here to purchase your copy today](#)

#### DRAWINGS

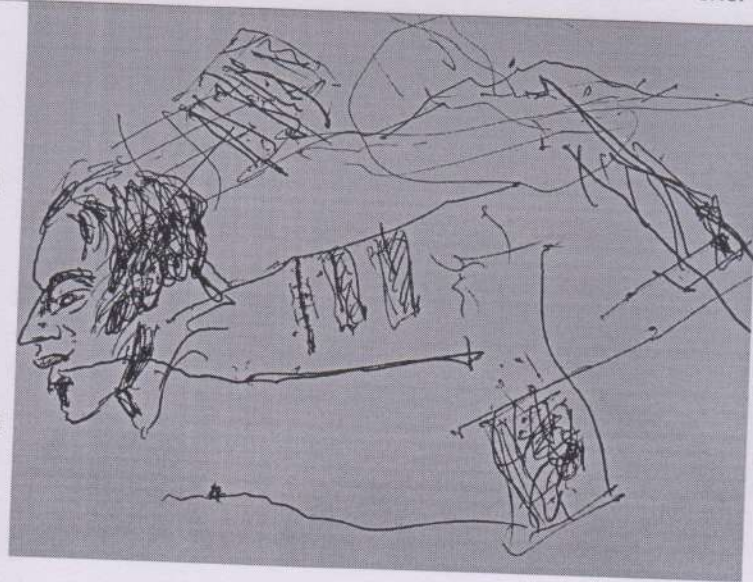
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2	99	3 Biotech	Springer Heidelberg	2190572X	21905738
3	100	3D Printing and Additive Manufacturing	Mary Ann Liebert, Inc	23297662	23297670
4	101	3D Research	Springer Science + Business Media		20926731
5	104	3L: Language, Linguistics, Literature	Penerbit Universiti Kebangsaan Malaysia	1285157	
6	63621	452ºF. Revista de Teoría de la literatura y Literatura Comparada	452ºF. Revista de Teoría de la literatura y Literatura Comparada		20133294
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17	127	AACN Advanced Critical Care	Lippincott Williams & Wilkins Ltd	15597768	
18	40764	Aadarshah	Shri Bhagavandas Aadarsh Sanskrit Mahavidyalaya, Haridwar, Uttarakhand	22307427	
19	41100	Aajkal	Suchna Bhawan, Lodhi Road, New Delhi.	0971846X	
20	41132	Aalami Urdu Adab (Quarterly)	Sant Gadge Baba Amravati University	23947616	
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24	134	AAPG Bulletin	Amer Assoc Petroleum Geologist	1491423	15589153



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1974	8218	Architectural Review	Emap Business Publishing Ltd	0003861X	
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1976	8221	Architectural Theory Review	Routledge Journals, Taylor & Francis Ltd	13264826	17550475
1977	8224	Architecture, City and Environment	Universitat Politecnica De Catalunya	18877052	18864805
1978	8225	Architektura a Urbanizmus	Slovak Academic Press Ltd	448680	
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